



**ABDULLAH GÜL
ÜNİVERSİTESİ**

**KİMYASALLARIN KULLANMA
TALİMATLARI**

**YAŞAM VE DOĞA BİLİMLERİ FAKÜLTESİ
MOLEKÜLER BİYOLOJİ VE GENETİK BÖLÜMÜ
LABORATUVARLARI**

EYLÜL 2017



İŞ SAĞLIĞI VE GÜVENLİĞİ KOORDİNATÖRLÜĞÜ

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Ammonium persulfate

Genel öneri

Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde

En az 15 dakika boyunca bol miktarda su tamamen yıkayınız ve bir doktora danışınız.

Yutulması halinde

Bilinci yerinde olmayan bir kişiye asla ağız yoluyla bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz koruması

Yüz kalkanı ve güvenlik gözlüğü NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Cildin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir. Bu ürün ile ten temasını önlemek için, doğru eldiven çıkartma yöntemi (eldivenin dış yüzeyine dokunmadan) kullanınız. Kontamine olmuş eldivenler iyi laboratuvar uygulamaları ve uygunluk kurallarına paralel olarak bertaraf edilmelidir. Ellerinizi yıkayıp kurulayın.

Seçilen koruma eldivenleri, AB 89/686/EEC Direktifine ve bu direktiften yola çıkılarak hazırlanan EN 374 standartlarına uygun olmalıdır.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması

Kimyasallara karşı koruyucu komple tulum

Solunum sisteminin korunması

Hava arıtmalı solunum cihazlarının kullanılmasının uygun olacağı tespit edildiği takdirde teknik kontroller için yedekli N100 tipi (Amerika Birleşik Devletleri) veya P3 (EN 143) tipi solunum kartuşları bulunan ve yüzü tam kapatan partikül tutucu solunum cihazları kullanınız. Korunma için tek yolun solunum cihazı olması durumunda yüzü tam kapatan hava maskeleri kullanınız.

Amonyum Klorür Kullanımı

Teneffüs ettikten sonra: temiz hava.

Deriyle teması halinde: Hemen tüm bulaşmış giysileri çıkarınız. Deriyi suyla yıkayınız.

Göz temasından sonra: bol su ile yıkayın. Göz uzmanı çağırın.

Yuttuktan sonra hemen 2 bardak su için. Doktora danışınız.

Göz/yüz koruması: Güvenlik gözlükleri

Ellerin korunması: Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 741 Dermatril® L (tam temas), KCL 741 Dermatril® L (sıçrama ile temas).

Diğer koruyucu ekipmanlar: Koruyucu giysi

Solunum sisteminin korunması: tozlar oluştuğunda gerekir.

Tavsiye edilen Filtre tipi: Zararlı elementlerin katı ve sıvı tanecikleri için P 2 Filtresi (DIN 3181'e uygun)

Hydroxychloroquine Sulfate

Genel öneri: Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde: Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde: Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde: En az 15 dakika boyunca bol miktarda su tamamen yıkayınız ve bir doktora danışınız.

Yutulması halinde: Bilinci yerinde olmayan bir kişiye asla ağız yoluyla bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz koruması: EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Cildin korunması: Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir. Bu ürün ile ten temasını önlemek için, doğru eldiven çıkartma yöntemi (eldivenin dış yüzeyine dokunmadan) kullanınız. Kontamine olmuş eldivenler iyi laboratuvar uygulamaları ve uygunluk kurallarına paralel olarak bertaraf edilmelidir. Ellerinizi yıkayıp kurulayın.

Seçilen koruma eldivenleri, AB 89/686/EEC Direktifine ve bu direktiften yola çıkılarak hazırlanan EN 374 standartlarına uygun olmalıdır.

Vücut korunması: Kimyasallara karşı koruyucu komple tulum, Korunma malzemelerinin türü, her iş yerine göre, tehlikeli maddenin miktarı ve konsantrasyonuna bağlı olarak belirlenmelidir.

Solunum sisteminin korunması: Rahatsız edici maruziyet için P95(US) veya P1(EU EN 143) tipi gaz maskesi kullanınız. Daha yüksek seviyeler için OV/AG/P99 (US) tipi veya ABEK P2 (EU EN 143) tipi gaz maskesi filtreleri kullanınız. NIOSH (Amerika Birleşik Devletleri) veya CEN (Avrupa Birliği) gibi ilgili cihazları ve gereçler kullanınız.

LYSIS BUFFER

Cilt Teması: Derhal en az 15 dakika bol su ile yıkayın. Kirlenmiş tüm giysileri çıkarın ve tekrar kullanmadan önce yıkayın. Derhal tıbbi müdahale gereklidir.

Göz teması: Göz kapaklarının altı da dahil olmak üzere, derhal en az 15 dakika bol su ile durulayın. Derhal tıbbi müdahale gereklidir.

Yutma: Acilen bir doktoru veya zehir kontrol merkezini arayın. Bilinci yerinde olmayan bir kişiye asla ağızdan bir şey vermeyin. Tıbbi tavsiye olmadan kusturmayın.

Soluma: Temiz havaya çıkarın. Nefes almıyorsa, suni solunum yapın. Acilen bir doktoru veya zehir kontrol merkezini arayın.

Elin korunması: Su geçirmeyen eldivenler.

Göz koruma: Gözlükler.

Cilt ve Vücut Koruma: Hafif koruyucu giysi.

RNASE FREE H2O

Deri teması: Bol miktarda su ile yıkayınız.

Göz teması: Hemen bol miktarda su ile göz kapaklarının altı dahil olmak en az 15 dakika boyunca iyice yıkayınız. Semptomlar devam ederse doktora başvurunuz.

Ağız yoluyla alma: Bilinçsiz bir kişiye asla ağızdan herhangi bir şey vermeyiniz. Semptomlar devam ederse doktora başvurunuz. Tıbbi olarak önerilmedikçe kusmaya zorlamayınız.

Solunum: Temiz havaya çıkartınız. Semptomlar devam ederse doktora başvurunuz. Solunum durmuşsa suni solunum yapınız.

Solunumun korunması

Yetersiz havalandırma durumunda, uygun maske kullanınız.

Ellerin korunması: Su geçirmeyen eldivenler

Gözlerin korunması Yan siperleri olan güvenlik gözlükleri.

Deri ve vücudun korunması Hafif koruyucu giysi.

Sodium Orthovanadate

Genel öneri

Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde

Tedbir olarak gözlere su tutunuz.

Yutulması halinde

Bilinci yerinde olmayan bir kişiye asla ağız yoluyla bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız

Göz/yüz koruması

EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Cildin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir. Seçilen koruma eldivenleri, AB 89/686/EEC Direktifine ve bu direktiften yola çıkılarak hazırlanan EN 374 standartlarına uygun olmalıdır.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması

Kimyasallara karşı koruyucu komple tulum, Korunma malzemelerinin türü, her iş yerine göre, tehlikeli maddenin miktarı ve konsantrasyonuna bağlı olarak belirlenmelidir.

Solunum sisteminin korunması

Rahatsız edici maruziyet için P95(US) veya P1(EU EN 143) tipi gaz maskesi kullanınız. Daha yüksek seviyeler için OV/AG/P99 (US) tipi veya ABEK P2 (EU EN 143) tipi gaz maskesi filtreleri kullanınız.

Stacking Buffer, 0.5 M Tris-HCl pH 6.8

General information No special measures required.

After inhalation Supply, fresh air; consult doctor in case of complaints

After skin contact Generally the product does not irritate the skin.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Induce vomiting and call for medical help.

General protective and hygienic measures the usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Protective gloves.

Material of gloves Synthetic gloves

Penetration time of glove material the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

TRIS Kullanımı

Ciltle teması: Bol su ile yıkayarak temizleyin. Derhal tıbbi müdahale gerekli değildir.

Göz teması P351- Su ile birkaç dakika boyunca dikkatli bir şekilde yıkayın. Varsa Kontakt lensleri kaldırın. Bunu yapması kolaydır.

YUTMA: Öngörülen normal kullanım koşulları altında önemli ağız yoluyla alım tehlikesi ortaya koyması beklenmez. Kendinizi kötü hissederseniz doktora başvurun.

Aspirasyon Bu maddenin, öngörülen normal kullanım koşulları altında bir inhalasyon riski olması beklenmez. Gerekirse bir doktora danışın.

Kişisel koruma ekipmanı

Solunum sistemin korunması Yetersiz havalandırma durumunda, uygun hükümet standartlarına göre test edilmiş ve onaylanmış maskeler ve bileşenler takın.

Elin Korunması Uygun eldivenler kullanın Eldiven malzemesi: Uyumlu kimyasal maddelere dayanıklı eldivenler.

Göz koruma Sıkı kapanan emniyet gözlükleri.

Cilt ve vücut koruma Uygun koruyucu giysi giyin.

Hijyen önlemleri Uygun endüstriyel hijyen ve güvenlik uygulamalarına göre kullanın.

Use Of Tween-20

General advice Consult a physician if necessary. Remove to fresh air.

Eye contact Wash with plenty of water.

Skin Contact Wash skin with soap and water.

Inhalation Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

WASH BUFFER I

Cilt Teması Derhal en az 15 dakika bol su ile yıkayın. Kirlenmiş tüm giysileri çıkarın ve tekrar kullanmadan önce yıkayın. Derhal tıbbi müdahale gereklidir.

Göz teması Göz kapaklarının altı da dahil olmak üzere, derhal en az 15 dakika bol su ile durulayın. Derhal tıbbi müdahale gereklidir.

Yutma: Acilen bir doktoru veya zehir kontrol merkezini arayın. Bilinci yerinde olmayan bir kişiye asla ağızdan bir şey vermeyin. Tıbbi tavsiye olmadan kusturmayın.

Soluma Temiz havaya çıkarın. Nefes almıyorsa, suni solunum yapın. Acilen bir doktoru veya zehir kontrol merkezini arayın.

Elin korunması Su geçirmeyen eldivenler.

Göz koruma Gözlükler.

Cilt ve Vücut Koruma Hafif koruyucu giysi.

Hijyen ölçütleri Uygun endüstriyel hijyen ve güvenlik uygulamalarına göre kullanın.

WASH BUFFER II

Ciltle teması: Bol su ile yıkayarak temizleyin. Derhal tıbbi müdahale gerekli değildir

Göz teması P351- Su ile birkaç dakika boyunca dikkatli bir şekilde yıkayın. Varsa Kontakt lensleri kaldırın. Bunu yapması kolaydır.

YUTMA Öngörülen normal kullanım koşulları altında önemli ağız yoluyla alım tehlikesi ortaya koyması beklenmez. Kendinizi kötü hissederseniz doktora başvurun.

Aspirasyon bu maddenin, öngörülen normal kullanım koşulları altında bir inhalasyon riski olması beklenmez. Gerekirse bir doktora danışın.

Solunum sistemin korunması: Yetersiz havalandırma durumunda, uygun hükümet standartlarına göre test edilmiş ve onaylanmış maskeler ve bileşenler takın.

Elin Korunması Uygun eldivenler kullanın Eldiven malzemesi: Uyumlu kimyasal maddelere dayanıklı eldivenler.

Göz koruma Sıkı kapanan emniyet gözlükleri

Cilt ve vücut koruma Uygun koruyucu giysi giyin.

Dulbecco's Phosphate Buffered Saline (DPBS) without Calcium and Magnesium

Eyes: In case of contact with eyes, flush thoroughly with water. Contact physician.

Skin: In case of contact with skin, wash the affected area with copious amounts of water. Contact a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Contact physician.

Inhalation: If inhaled, remove person to fresh air. If breathing becomes difficult, contact a physician.

Engineering Controls: Use with adequate ventilation.

Personal Protective Equipment:

Respiratory Protection: This is a laboratory-use product for which no industrial protective equipment has been designated.

Eye Protection: Safety glasses.

Skin Protection: Lab coat, gloves.

Fetal Bovine Serum

After inhalation: Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally, the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

Protection of hands:

The glove material has to be impermeable and resistant to the product/substance/preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

Caspase-3 Antibody

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Skin contact Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. Consult a physician. If not breathing, give artificial respiration.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.

Eye/face protection Tightly fitting safety goggles.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Etanol

Teneffüs ettikten sonra: temiz hava.

Deriyle teması halinde: Hemen tüm bulaşmış giysileri çıkarınız. Deriyi suyla yıkayınız.

Göz temasından sonra: bol su ile yıkayın. Göz uzmanı çağırın. Kontakt lensleri çıkarınız.

Yuttuktan sonra hemen 2 bardak su içirin. Doktora danışınız.

Göz/yüz koruması

Güvenlik gözlükleri

Ellerin korunması

Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 898 Butoject® (tam temas), KCL 730 Camatril® -Velours (sıçrama ile temas).

Diğer koruyucu ekipmanlar

Kolay yanmayan antistatik koruyucu giysi.

Solunum sisteminin korunması

Buharlar/aerosoller oluştuğunda gerekir.

Tavsiye edilen Filtre tipi: A Filtresi (DIN 3181'e uygun)

Metanol

Genel öneri

İlkyardım yapan kişi gerekli koruyucu tedbirleri kendisi için almalıdır.

Solunum sonrasında: temiz hava. Hemen doktor çağırın. Eğer solunum durursa: hemen mekanik solunum uygulayın, gerekliyse oksijen de uygulayın.

Deriyle teması halinde: Hemen tüm bulaşmış giysileri çıkarınız. Deriyi suyla yıkayınız. Hemen bir doktor çağırınız.

Göz temasından sonra: bol su ile yıkayın. Göz uzmanı çağırın. Kontakt lensleri çıkarınız.

Yutma sonrası: temiz hava. Kazazedeye etanol içiriniz (örn. 1 bardak %40'lık alkollü içecek).

Derhal doktoru arayınız (Metanol içildiğini belirtiniz). Yalnızca bir saat içinde tıbbi yardımın mevcut olmadığı özel durumlarda, kazazedeyi kusturunuz (yalnızca bilinci yerinde olan kişileri) ve tekrar etanol içiriniz (yaklaşık 0.3 ml %40'lık alkollü içecek/kg vücut ağırlığı/saat).

Göz/yüz koruması

Güvenlik gözlükleri

Ellerin korunması

Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 898 Butoject® (tam temas), KCL 890 Vitoject® (sıçrama ile temas).

Diğer koruyucu ekipmanlar

Kolay yanmayan antistatik koruyucu giysi.

Solunum sisteminin korunması

Buharlar/aerosoller oluştuğunda gerekir.

Tavsiye edilen Filtre tipi: AX Filtresi (EN 371)

Triton® X-100

Teneffüs ettikten sonra: temiz hava.

Deriyle teması halinde: Hemen tüm bulaşmış giysileri çıkarınız. Deriyi suyla yıkayınız.

Göz temasından sonra: bol su ile yıkayın. Hemen göz uzmanı çağırın. Kontakt lensleri çıkarınız.

Yuttuktan sonra: eğer hasta kusarsa dikkat. Aspirasyon tehlikesi! Solunum yollarını açık tutun. Kusmuşun solunumu sonrasında akciğer iflası olasıdır. Hemen bir doktor çağırınız.

Göz/yüz koruması

Yüze tam oturan güvenlik gözlükleri

Ellerin korunması

Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 898 Butoject® (tam temas), KCL 898 Butoject® (sıçrama ile temas).

Diğer koruyucu ekipmanlar

Koruyucu giysi

Solunum sisteminin korunması

Buharlar/aerosoller oluştuğunda gerekir.

Tavsiye edilen Filtre tipi: Filtre A-(P2)

Dimethyl Sulfoxide

After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Wash off with plenty of water. If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Seek medical treatment.

· After swallowing:

Rinse out mouth. make victim drink water (maximum of 2 drinking glasses) Laxative: Sodium sulfate (1 tablespoon/ 1/4 L water) Seek medical treatment.

Respiratory protection:

Filter A Respiratory protection required when vapours/aerosols are generated.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Recommended thickness of the material: ³ 0.65 mm

Chloroprene rubber, CR

Value for the permeation: Level ³ 480 min

· As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: ³ 0.6 mm Natural rubber, NR

Value for the permeation: Level ³ 240 min

· Eye protection: Safety glasses

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

TEMED

General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing

Call for a doctor immediately.

General protective and hygienic measures Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:** Protective gloves.

· **Material of gloves** Synthetic gloves

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses

Tightly sealed goggles.

Trans-Blot® Turbo™ 5x Transfer Buffer

After inhalation Supply, fresh air; consult doctor in case of complaints.

· After eye contact Rinse opened eye for several minutes under running water.

· After swallowing Induce vomiting and call for medical help.

· Information for doctor

· Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

· Exposure controls

· Personal protective equipment

· **General protective and hygienic measures** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required.

· **Protection of hands:** Protective gloves.

· **Material of gloves** Synthetic gloves

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

Annexin V-FITC

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Cytochrome c Releasing

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

L-Glutamine Solution**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water. Consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Gloves.

Eye protection: Safety glasses.

Skin and body protection: Protective clothing.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Other information: Do not allow product to enter drains.

L-Glutamine Solution**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin Contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye Contact: Rinse thoroughly with plenty of water. Consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Gloves.

Eye protection: Safety glasses.

Skin and body protection: Protective clothing.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Other information: Do not allow product to enter drains.

Minimum Essential Medium (MEM) Alpha Modification with L-Glutamine

Skin contact Wash off immediately with plenty of water.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion Never give anything by mouth to an unconscious person. Call a physician.

Inhalation Move to fresh air.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious chemical-resistant gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Penicillin/ Streptomycin (100x)

Skin contact Wash off immediately with plenty of water. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Notes to physician Treat symptomatically.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields.

Skin and body protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

RPMI 1640

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin Contact: Wash off with soap and plenty of water.

In case of eye Contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Thiazolyl Blue Tetrazolium Bromide

Genel öneri: Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde: Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde: Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde: En az 15 dakika boyunca bol miktarda su tamamen yıkayınız ve bir doktora danışınız.

Yutulması halinde: Bilinçsiz bir kişiye asla ağızdan herhangi bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz koruması

EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Derinin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir.

Seçilen koruma eldivenleri, AB 89/686/EEC Direktifine ve bu direktiften yola çıkılarak hazırlanan EN 374 standartlarına uygun olmalıdır.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması: Su geçirmez giysi

Solunum sisteminin korunması

Yapılan risk değerlendirmesinde hava arıtmalı solunum cihazlarının kullanılmasının uygun olacağı tespit edildiği takdirde teknik kontroller için yedekli N100 tipi (Amerika Birleşik Devletleri) veya P3 (EN 143) tipi solunum kartuşları bulunan ve yüzü tam kapatan partikül tutucu solunum cihazları kullanınız. Korunma için tek yolun solunum cihazı olması durumunda yüzü tam kapatan hava maskeleri kullanınız.

Propidium iodide

Genel öneri

Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde

En az 15 dakika boyunca bol miktarda su tamamen yıkayınız ve bir doktora danışınız.

Yutulması halinde

Bilinçsiz bir kişiye asla ağızdan herhangi bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz koruması

EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Derinin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması: su geçirmez giysi

Solunum sisteminin korunması

Yapılan risk değerlendirmesinde hava arıtmalı solunum cihazlarının kullanılmasının uygun olacağı tespit edildiği takdirde teknik kontroller için yedekli N100 tipi (Amerika Birleşik Devletleri) veya P3 (EN 143) tipi solunum kartuşları bulunan ve yüzü tam kapatan partikül tutucu solunum cihazları kullanınız. Korunma için tek yolun solunum cihazı olması durumunda yüzü tam kapatan hava maskeleri kullanınız.

Water

Solunması halinde

Solunum durmuş ise suni solunum yapınız

Derinin korunması

Suya daldırmadan koruma: Test edilmiş malzeme: Dermatril® (Aldrich Z677272, Ebat M)

Sıçramadan koruma: Test edilmiş malzeme: Dermatril® (Aldrich Z677272, Ebat M)

Resveratrol

Genel öneri

Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız.

Doktora danışınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde

En az 15 dakika boyunca bol miktarda su tamamen yıkayınız ve bir doktora danışınız.

Yutulması halinde

Bilinci yerinde olmayan bir kişiye asla ağız yoluyla bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz korunması

EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Cildin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması: Su geçirmez giysi

Solunum sisteminin korunması

Rahatsız edici maruziyet için P95(US) veya P1(EU EN 143) tipi gaz maskesi kullanınız. Daha yüksek seviyeler için OV/AG/P99 (US) tipi veya ABEK P2 (EU EN 143) tipi gaz maskesi filtreleri kullanınız.

TWEEN® 20

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız.

Gözle teması halinde

Tedbir olarak gözlere su tutunuz.

Yutulması halinde

Bilinci yerinde olmayan bir kişiye asla ağız yoluyla bir şey vermeyiniz. Ağız suyla çalkalayınız.

Göz/yüz korunması

NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Cildin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması: Su geçirmez giysi

Solunum sisteminin korunması

Solunum korunması gerekli değildir. Rahatsız edici maruziyetler için OV/AG (US) veya ABEK (EU EN 14387) tipi havalandırma kartuşu kullanınız.

Trypan Blue

Genel öneri

Doktora danışınız. Doktorunuza başvurduğunuzda bu güvenlik bilgi formunu gösteriniz.

Solunması halinde

Solunması halinde, kazazedeyi açık havaya çıkartınız. Solunum durmuşsa suni solunum yapınız. Doktora danışınız.

Deriyle teması halinde

Sabun ve bol miktarda su ile yıkayınız. Doktora danışınız.

Gözle teması halinde

Tedbir olarak gözlere su tutunuz.

Yutulması halinde

Bilinçsiz bir kişiye asla ağızdan herhangi bir şey vermeyiniz. Ağız suyla çalkalayınız. Doktora danışınız.

Göz/yüz koruması

EN166 formlarına uygun, yanları korunumlu emniyet gözlükleri NIOSH (US) veya EN 166 (EU) gibi standartlara uygun olarak test edilmiş ve onaylanmış göz koruma ekipmanı kullanınız.

Derinin korunması

Taşırken eldiven takınız. Eldivenler kullanım öncesi kontrol edilmelidir.

Tam temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Sıçrama ile temas: Test edilmiş malzeme: Dermatril® (KCL 740 / Aldrich Z677272, Ebat M)

Vücut korunması: Su geçirmez giysi

Solunum sisteminin korunması

Yapılan risk değerlendirmesinde hava arıtmalı solunum cihazlarının kullanılmasının uygun olacağı tespit edildiği takdirde teknik kontroller için yedekli N100 tipi (Amerika Birleşik Devletleri) veya P3 (EN 143) tipi solunum kartuşları bulunan ve yüzü tam kapatan partikül tutucu solunum cihazları kullanınız. Korunma için tek yolun solunum cihazı olması durumunda yüzü tam kapatan hava maskeleri kullanınız.

Detection Reagent 1, Peroxide Solution

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Detection Reagent 2, Luminol Enhancer Solution

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Myriocin

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin Contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye Contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

DL-threo -PDMP, Hydrochloride

General advice If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. If symptoms persist, call a physician. Artificial respiration and/or oxygen may be necessary. Call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.

Ingestion Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Note to physicians Treat symptomatically.

Self-protection of the first aider Use personal protective equipment as required.

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and Body Protection Suitable protective clothing. Apron. Gloves made of plastic or rubber.

Respiratory protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Strep Tactin-HRP Conjugate

General information No. special measures required.

After inhalation Supply, fresh air; consult doctor in case of complaints.

After skin contact Generally the product does not irritate the skin.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Induce vomiting and call for medical help.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

Personal protective equipment

General protective and hygienic measures the usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Protective gloves.

Material of gloves Synthetic gloves

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Ammonium Persulfate

After inhalation Supply, fresh air; consult doctor in case of complaints.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Induce vomiting and call for medical help.

Most important symptoms and effects, both acute and delayed No. further relevant information available.

Indication of any immediate medical attention and special treatment needed No. further relevant information available.

Personal protective equipment

General protective and hygienic measures Wash hands before breaks and at the end of work.

Protection of hands: Protective gloves.

Material of gloves Synthetic gloves

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

TGX Stain-Free™ Fast Cast™ Resolver B

After inhalation Supply, fresh air; consult doctor in case of complaints.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Induce vomiting and call for medical help.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

Personal protective equipment

General protective and hygienic measures the usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Protective gloves.

Material of gloves Synthetic gloves

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

D (+)-Ksiloz Ph Eur, BP

Teneffüs ettikten sonra: temiz hava.

Cilt temasından sonra: Bol su ile yıkayın. Kirlenen giysiyi çıkarın.

Göz temasından sonra: bol su ile yıkayın.

Yuttuktan sonra (fazla miktarda): kötü hissediliyorsa doktora başvurun.

Hijyen ölçütleri

Kirlenen giysiyi değiştirin. Madde ile çalıştıktan sonra ellerinizi yıkayın.

Göz/yüz koruması

Güvenlik gözlükleri

Ellerin korunması: Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 741 Dermatril® L (tam temas), KCL 741 Dermatril® L (sıçrama ile temas).

Solunumun korunması

Tozlar oluştuğunda gerekir.

10X Tris-EDTA (TE) Buffer

In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes.

In case of contact with skin, immediately wash with soap and copious amounts of water.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

If swallowed, wash out mouth with water provided person is conscious.

Call a physician.

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

Tris Hydrochloride

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash off with plenty of water. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Rinse out mouth. If symptoms persist consult doctor.

General protective and hygienic measures: Change contaminated clothing.

Respiratory protection:

Required when dusts are generated.

Filter P1

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Protective work clothing

Tris Hydrochloride

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Tryptone BioChemica

General information:

No. special measures required. Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash off with plenty of water. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing:

Rinse out mouth. If symptoms persist consult doctor.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye protection: Safety glasses

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Triton® X 100

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash off with plenty of water.

Immediately remove any clothing soiled by the product.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Do not induce vomiting; call for medical help immediately.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A-(P2)

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.7 mm

Butyl rubber, BR Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.7 mm

Butyl rubber, BR

Value for the permeation: Level ≥ 480 min

Eye protection:

Tightly sealed goggles

Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Agarose LE tablets

General information: No. special measures required.

After inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Seek medical treatment.

After swallowing: Rinse out mouth.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin. Store protective clothing separately. Immediately remove all soiled and contaminated clothing.

Respiratory protection: Respiratory protection required when vapours/aerosols are generated. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Filter P3 (EN 143).

Protection of hands:

Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection: Safety glasses.

Safety glasses (EN 166)

Body protection:

Use protective suit. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Bromophenol blue

After skin contact: Wash off with plenty of water. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Rinse out mouth. If symptoms persist consult doctor.

Respiratory protection: Required when dusts are generated. Filter P1

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye protection: Safety glasses

Body protection: Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Coomassie® Brilliant blue G-250 (C.I. 42655)

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air or oxygen; call for doctor.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Rinse out mouth. Seek medical treatment.

General protective and hygienic measures: Change contaminated clothing.

Respiratory protection: Required when dusts are generated.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye protection: Safety glasses

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Coomassie Brilliant Blue G-250

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Eye/Face Protection Avoid contact with eyes. Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

D (+)-Maltose monohydrate BioChemica

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash off with plenty of water. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Rinse out mouth. If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No. further relevant information available.

Indication of any immediate medical attention and special treatment needed

No. further relevant information available.

Personal protective equipment:

· **General protective and hygienic measures:** Change contaminated clothing.

· **Breathing equipment:** Required when dusts are generated. Filter P1

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

· **As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

D (+)-Ksiloz Ph Eur, BP

Teneffüs ettikten sonra: temiz hava.

Cilt temasından sonra: Bol su ile yıkayın. Kirlenen giysiyi çıkarın.

Göz temasından sonra: bol su ile yıkayın.

Yuttuktan sonra (fazla miktarda): kötü hissediliyorsa doktora başvurun.

Kişisel korunma önlemleri Koruyucu giysi

Hijyen ölçütleri

Kirlenen giysiyi değiştirin. Madde ile çalıştıktan sonra ellerinizi yıkayın.

Göz/yüz koruması

Güvenlik gözlükleri

Ellerin korunması

Kullanılacak eldivenler EC talimatı 89/686/EEC spesifikasyonlarına ve sonuç standart EN374'e uymalıdır, örneğin KCL 741 Dermatril® L (tam temas), KCL 741 Dermatril® L (sıçrama ile temas).

Dimethyl Sulfoxide (DMSO)

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Inhalation Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Skin Contact Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Engineering Controls Showers

Eyewash stations

Ventilation systems

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and Body Protection Suitable protective clothing. Apron. Gloves made of plastic or rubber.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

GLYCINE

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

Skin: Flush area immediately with plenty of soap and water.

Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.

Ingestion: Wash mouth with water.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Use appropriate exhaust ventilation.

Respiratory protection: use OSHA/MSHA approved dust masks.

L (+) ARABINOSE

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Hygiene measures: General industrial hygiene practice.

Nonidet® P40

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth. make victim drink water (maximum of 2 drinking glasses) Do not induce vomiting; call for medical help immediately.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.7 mm

Butyl rubber, BR

Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Ponceau S solution

SWALLOWED

If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

EYE

If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

SKIN

If skin contact occurs:

Immediately remove all contaminated clothing, including footwear

Flush skin and hair with running water (and soap if available).

INHALED

If fumes or combustion products are inhaled remove from contaminated area.

Lay patient down. Keep warm and rested.

NOTES TO PHYSICIAN

Treat symptomatically.

EYE

Safety glasses with side shields.

Chemical goggles.

HANDS/FEET

Wear chemical protective gloves, eg. PVC.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such

as: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.

When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Application of a non-perfumed moisturiser is recommended.

OTHER

Overalls.

P.V.C. apron.

Barrier cream.

Skin cleansing cream.

Eye wash unit.

Sodium acetate trihydrate

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use.

Full Contact: Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash Contact: Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Sodium Chloride

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash off with plenty of water.

Immediately remove any clothing soiled by the product.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek medical treatment.

After swallowing:

Rinse out mouth.

If symptoms persist consult doctor.

General protective and hygienic measures: Change contaminated clothing.

· Respiratory protection:

Filter P1

Required when dusts are generated.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

· **As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level ≥ 480 min

· **Eye protection:** Safety glasses

· **Body protection:**

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Sodium deoxycholate

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Toluene

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin Contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye Contact: Flush eyes with water as a precaution.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use.

Full Contact: Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash Contact: Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Body Protection

Complete suit protecting against chemicals, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Tween 20

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Eye/Face Protection Avoid contact with eyes. Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.