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Replaced revision:2 (Dated 04/02/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

501 Code:

Product name **FONDO FIL EXTRA (A)**

1.2. Relevant identified uses of the substance or mixture and uses advised against

SOLVENT FREE EPOXY MORTAR, HIGH FLUIDITY

1.3. Details of the supplier of the safety data sheet

NORD RESINE S.p.A. Name Full address Via Fornace Vecchia, 79 District and Country Susegana 31058

(TV) Italia

Tel. +39 0438-437511 Fax +39 0438-435155

e-mail address of the competent person

responsible for the Safety Data Sheet annabreda@nordresine.com

NORD RESINE S.p.A. Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to +39 0438 437511

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

H319 Eye irritation, category 2 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

Hazardous to the aquatic environment, chronic H411 Toxic to aquatic life with long lasting effects.

toxicity, category 2

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation. H315 Causes skin irritation.



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SECTION 2. Hazards identification .../>>

H317 May cause an allergic skin reaction.H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.

P273 Avoid release to the environment.

P391 Collect spillage.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.
P337+P313 If eye irritation persists: Get medical advice / attention.

Contains: Alkyl (C12-14) glycidyl ether

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and

[2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition: 128,73 Limit value: 500,00

- Catalysed with: 25,00 % FONDO FIL EXTRA (B)

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

 ${\bf 2,2'\text{-}[(1\text{-}methylethylidene)bis(4,1\text{-}phenyleneoxymethylene)]} bis oxirane$

INDEX 25 ≤ x < 35 Eve Irrit, 2 H319, Skin Irrit, 2 H315, Skin Sens, 1 H317, Aquatic Chronic 2

H411

EC 216-823-5 Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%

CAS 1675-54-3 REACH Reg. 01-2119456619-26

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and

 $\hbox{$[2-(4-(oxiran-2-ylmethoxy)benzyl]phenoxy}$ methyl) oxirane \ and \ \hbox{$[2,2'-[methylenebis(2,1-phenyleneoxymethylene)]} dioxirane \ and \ \hbox{$[2,2'-[methylenebis(2,1-phenyleneoxymethyleneoxymethylenebis(2,1-phenyleneoxymethyleneoxyme$

INDEX 8 ≤ x < 10 Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 701-263-0 CAS 9003-36-5 REACH Reg. 01-2119454392-40 Alkyl (C12-14) glycidyl ether

INDEX 603-103-00-4 $8 \le x < 10$ Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 271-846-8 CAS 68609-97-2 REACH Reg. 01-2119485289-22

ETHYLENE GLYCOL

INDEX 603-027-00-1 1 ≤ x < 4 Acute Tox. 4 H302, STOT RE 2 H373

EC 203-473-3 STA Oral: 500 mg/kg

CAS 107-21-1

REACH Reg. 01-2119456816-28 XYLENE (MIXTURE OF ISOMERS)

INDEX 601-022-00-9 $0 \le x < 1$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C

STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l

EC 215-535-7 STA Dern CAS 1330-20-7 REACH Reg. 01-2119488216-32

©EPY 11.5.2 - SDS 1004.14



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SECTION 3. Composition/information on ingredients .../>>

ETHYLBENZENE

INDEX 601-023-00-4 0 ≤ x < 1 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

LC50 Inhalation vapours: 17,2 mg/l/4h

REACH Reg. 01-2119489370-35

202-849-4

100-41-4

TOLUENE

FC.

CAS

INDEX 601-021-00-3 0 ≤ x < 1 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin

Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9 CAS 108-88-3

REACH Reg. 01-2119471310-51

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.



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SECTION 6. Accidental release measures/>

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

| CZE | Česká Republika | Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., |
|-----|-----------------|--|
| | | kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů |
| DEU | Deutschland | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und |
| | | Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung |
| | | gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 |
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| GRC | Ελλάδα | Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των |
| | | οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας |
| | | 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με |
| | | την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"» |
| HUN | Magyarország | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki |
| | | tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről |
| HRV | Hrvatska | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama |
| | | na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| NLD | Nederland | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, |
| | | eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit |
| PRT | Portugal | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os |
| | | agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os |
| | | riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos |
| POL | Polska | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające |
| | | rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych |
| | | dla zdrowia w środowisku pracy |
| ROU | România | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru |
| | | modificarea și completarea hotărârii guvernului nr. 1.093/2006 |
| SVN | Slovenija | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu |
| 000 | | (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19) |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) |
| | | 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive |



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SECTION 8. Exposure controls/personal protection

2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive

91/322/EEC.

TLV-ACGIH ACGIH 2022

| redicted no-effect cor Normal value in fresh | | | /IIuerie)bis(4,1- | -pnenyleneoxyl | methylene)]bisox | | | |
|--|---|---|--|---|------------------|--|---|--------------------------------------|
| Normal value in fresh | ncentration | - PNEC | | | | | | |
| Normal value in hesi | water | | | | | 0,006 | mg//l | |
| Normal value in mari | ne water | | | | | 0,0006 | mg/l | |
| Normal value for fres | h water sedi | ment | | | | 0,996 | mg/kg | |
| Normal value for mar | | | | | | 0.0996 | mg/kg | |
| lealth - Derived no-eff | | | | | | 0,0000 | mg/kg | |
| ieaitii - Derived iio-eii | | | | | Effects on worke | | | |
| Dtf | | consumers | 01 | 01 | | | Ol | 01 |
| Route of exposure | Acute | Acute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | local | systemic | local | systemic | local | systemic | local | systemic |
| Oral | | | VND | 0,75 | | | | |
| | | | | mg/kg/d | | | | |
| Inhalation | | | | | | | VND | 12,25 |
| | | | | | | | | mg/m3 |
| Skin | | | VND | 3,571 | | | VND | 8,33 |
| J | | | 2 | mg/kg/d | | | | mg/kg |
| | | | | mg/kg/a | | | | mg/kg |
| | | | | | | | | |
| redicted no-effect cor | ncentration | - PNFC | Alkyl (C12- | 14) glycidyl eth | ier | | | |
| Normal value in fresh | | | | | | 0,0072 | mg/l | |
| Normal value in mari | | | | | | 0,0072 | mg/l | |
| Normal value for fres | | mont | | | | 66,77 | | |
| | | | | | | | mg/kg | |
| Normal value for mar | | | | | | 6,677 | mg/kg | |
| Normal value of STP | | | | | | 10 | mg/l | |
| Normal value for the | | • | | | | 80,12 | mg/kg | |
| lealth - Derived no-eff | ect level - D | NEL / DMEL | | | | | | |
| | Effects or | consumers | | | Effects on worke | rs | | |
| Route of exposure | Acute | Acute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| opood.o | local | systemic | local | systemic | local | systemic | local | systemic |
| Inhalation | local | Systemic | iocai | Зузюни | local | Systemic | local | 13,8 |
| IIIIIalalloll | | | | | | | | |
| | | | | | | | | mg/m3 |
| 01: | | | | | | | | |
| Skin | | | | | | | | 3,9 |
| Skin | | | | | | | | mg/kg |
| Skin | | | | | | | | |
| Skin | | | | | | | | mg/kg |
| Skin | | | | | | | | mg/kg |
| | methylenet | ois(4,1-phenylen | eoxymethylen | e)]dioxirane an | d | | | mg/kg |
| Reaction mass of 2,2'- | | | | | d | | | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme | thoxy)benz | yl]phenoxy}met | hyl)oxirane an | | d | | | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 | thoxy)benz -phenylene | yl]phenoxy}met oxymethylene)]d | hyl)oxirane an | | d | | | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect coi | thoxy)benz -phenylene ncentration | yl]phenoxy}met oxymethylene)]d | hyl)oxirane an | | d | 0.002 | ma/l | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect cor Normal value in fresh | ethoxy)benz -phenylened ncentration water | yl]phenoxy}met oxymethylene)]d - PNEC | hyl)oxirane an | | d | 0,003 | mg/l | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect cor Normal value in fresh Normal value for fres | ethoxy)benz -phenylened ncentration water h water sedi | yl]phenoxy}met oxymethylene)]d - PNEC ment | hyl)oxirane an | | d | 0,294 | mg/kg | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar | ethoxy)benz -phenylened ncentration water h water sedi ine water se | yl]phenoxy}met oxymethylene)]d - PNEC ment diment | hyl)oxirane an | | d | 0,294 0,029 | mg/kg mg/kg | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect cor Normal value in fresh Normal value for fres | ethoxy)benz -phenylened ncentration water h water sedi ine water se | yl]phenoxy}met oxymethylene)]d - PNEC ment diment | hyl)oxirane an | | d | 0,294 | mg/kg | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar | thoxy)benz -phenylened ncentration water h water sedi ine water se er, intermitte | yl]phenoxy}met oxymethylene)]d - PNEC ment diment nt release | hyl)oxirane an | | d | 0,294 0,029 | mg/kg mg/kg | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar Normal value for wate Normal value of STP | thoxy)benz -phenylened ncentration water h water sedi ine water se er, intermitte microorgani | yl]phenoxy}met oxymethylene)]d - PNEC ment diment nt release sms | hyl)oxirane an | | d | 0,294 0,029 0,025 10 | mg/kg mg/kg mg/l mg/l | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar Normal value of STP Normal value for the | ethoxy)benz -phenylened ncentration water h water sedi ine water se er, intermitte microorgani terrestrial co | yl]phenoxy}met oxymethylene)]d - PNEC ment diment nt release sms mpartment | hyl)oxirane an | | d | 0,294 0,029 0,025 | mg/kg mg/kg mg/l | mg/kg |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar Normal value for wate Normal value of STP | ethoxy)benz -phenylened ncentration water h water sedinine water se er, intermitte microorgani terrestrial co ect level - D | yl]phenoxy}met oxymethylene)]d - PNEC ment diment nt release sms mpartment NEL / DMEL | hyl)oxirane an | | | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l | mg/kg |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effe | ethoxy)benz -phenylened ncentration water h water sedinine water se er, intermitte microorgani terrestrial co ect level - D Effects or | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers | hyl)oxirane an dioxirane | d | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for fres Normal value for mar Normal value of STP Normal value for the | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | d Chronic | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effect Route of exposure | ethoxy)benz -phenylened ncentration water h water sedinine water se er, intermitte microorgani terrestrial co ect level - D Effects or | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers | hyl)oxirane an dioxirane | Chronic systemic | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effe | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic 6,25 | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effect Route of exposure | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect corn Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effe Route of exposure | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic 6,25 | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect con Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effect Route of exposure | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic 6,25 mg/kg bw/d 8,7 | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d Chronic systemic |
| Reaction mass of 2,2'- 2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect cor Normal value in fresh Normal value for fres Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effe Route of exposure Oral Inhalation | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic 6,25 mg/kg bw/d 8,7 mg/m3 | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | Chronic systemic |
| Reaction mass of 2,2'-[2-({2-[4-(oxiran-2-ylme 2,2'-[methylenebis(2,1 Predicted no-effect corn Normal value in fresh Normal value for mar Normal value for wate Normal value of STP Normal value for the Health - Derived no-effe Route of exposure | ethoxy)benz -phenylened ncentration water h water seding ine water seding ine water seding ine water seding ine water seding ine water seding microorgani terrestrial co ect level - D Effects or Acute | yl]phenoxy}met oxymethylene)]c - PNEC ment diment nt release sms mpartment NEL / DMEL n consumers Acute | hyl)oxirane an dioxirane Chronic | Chronic systemic 6,25 mg/kg bw/d 8,7 | Effects on worke | 0,294 0,029 0,025 10 0,237 | mg/kg mg/kg mg/l mg/l mg/kg | mg/kg bw/d Chronic systemic |



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SECTION 8. Exposure controls/personal protection

| | | | | ETHYLE | NE GLYCOL | | | | |
|--------------------|----------------|---------------|--------|---------|------------|---------------|--------------|---------|----------|
| hreshold Limit V | | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | | Remarks / 0 | Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | CZE | 50 | 19,4 | 100 | 38,8 | SKIN | | | |
| AGW | DEU | 26 | 10 | 52 | 20 | SKIN | | | |
| MAK | DEU | 26 | 10 | 52 | 20 | SKIN | | | |
| VLA | ESP | 52 | 20 | 104 | 40 | SKIN | | | |
| VLEP | FRA | 52 | 20 | 104 | 40 | SKIN | | | |
| TLV | GRC | 125 | 50 | 125 | 50 | | | | |
| AK | HUN | 52 | | 104 | | SKIN | | | |
| GVI/KGVI | HRV | 52 | 20 | 104 | 40 | SKIN | | | |
| VLEP | ITA | 52 | 20 | 104 | 40 | SKIN | | | |
| TGG | NLD | 52 | | 104 | | SKIN | damp | | |
| VLE | PRT | 52 | 20 | 104 | 40 | SKIN | | | |
| NDS/NDSCh | POL | 15 | | 50 | | SKIN | | | |
| TLV | ROU | 52 | 20 | 104 | 40 | SKIN | | | |
| MV | SVN | 52 | 20 | 104 | 40 | SKIN | | | |
| WEL | GBR | 52 | 20 | 104 | 40 | SKIN | | | |
| OEL | EU | 52 | 20 | 104 | 40 | SKIN | | | |
| TLV-ACGIH | | | 25 | | 50 | | | | |
| TLV-ACGIH | | | | 10 | | INHAL | | | |
| redicted no-effe | ct concentra | ation - PNE | С | | | | | | |
| Normal value in | fresh water | | | | | | 10 | mg/l | |
| Normal value in | marine wate | er | | | | | 1 | mg/l | |
| Normal value for | or fresh wate | r sediment | | | | | 37 | mg/kg/d | |
| Normal value for | or marine wa | ter sedimen | t | | | | 3,7 | mg/kg/d | |
| Normal value for | or water, inte | rmittent rele | ase | | | | 10 | mg/l | |
| Normal value of | | | | | | | 199,5 | mg/l | |
| Normal value for | | | | | | | 1,53 | mg/kg/d | |
| lealth - Derived n | o-effect lev | el - DNEL / | DMEL | | | | | | |
| | Effe | cts on cons | umers | | | Effects on wo | rkers | | |
| Route of exposi | ure Acu | te Ac | ute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | loca | ıl sy: | stemic | local | systemic | local | systemic | local | systemic |
| Inhalation | | | | 7 | | | | 35 | |
| | | | | mg/m3 | | | | mg/m3 | |
| Skin | | | | - | 53 | | | | 106 |
| | | | | | mg/kg bw/d | | | | mg/kg |



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SECTION 8. Exposure controls/personal protection

.../>>

| | | | > | YLENE (MIXT | URE OF ISON | MERS) | | | |
|-------------------|----------------|---------------|-------------|-------------|-------------|---------------|--------------|---------|----------|
| reshold Limit \ | /alue | | | | | | | | |
| Type | Country | | | STEL/15min | | Remarks / | Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| TLV | CZE | 200 | 46 | 400 | 92 | SKIN | | | |
| AGW | DEU | 440 | 100 | 880 | 200 | SKIN | | | |
| MAK | DEU | 440 | 100 | 880 | 200 | SKIN | | | |
| VLA | ESP | 221 | 50 | 442 | 100 | SKIN | | | |
| VLEP | FRA | 221 | 50 | 442 | 100 | SKIN | | | |
| TLV | GRC | 435 | 100 | 650 | 150 | | | | |
| GVI/KGVI | HRV | 221 | 50 | 442 | 100 | SKIN | | | |
| VLEP | ITA | 221 | 50 | 442 | 100 | SKIN | | | |
| TGG | NLD | 210 | | 442 | | SKIN | | | |
| VLE | PRT | 221 | 50 | 442 | 100 | SKIN | | | |
| NDS/NDSCh | POL | 100 | | 200 | | SKIN | | | |
| TLV | ROU | 221 | 50 | 442 | 100 | SKIN | | | |
| MV | SVN | 221 | 50 | 442 | 100 | SKIN | | | |
| WEL | GBR | 220 | 50 | 441 | 100 | SKIN | | | |
| OEL | EU | 221 | 50 | 442 | 100 | SKIN | | | |
| TLV-ACGIH | | 434 | 100 | 651 | 150 | | | | |
| redicted no-effe | ct concentr | ation - PNE | C | | | | | | |
| Normal value in | fresh water | | | | | | 0,327 | mg/l | |
| Normal value in | marine wat | er | | | | | 0,327 | mg/l | |
| Normal value for | or fresh wate | r sediment | | | | | 12,46 | mg/kg | |
| Normal value for | or marine wa | ter sedimen | t | | | | 12,46 | mg/kg | |
| Normal value for | or water, inte | rmittent rele | ase | | | | 0,327 | mg/l | |
| Normal value o | f STP micro | organisms | | | | | 6,58 | mg/l | |
| Normal value for | or the terrest | rial compart | ment | | | | 2,31 | mg/kg | |
| ealth - Derived r | no-effect lev | el - DNEL / | DMEL | | | | | | |
| | Effe | cts on cons | umers | | | Effects on we | orkers | | |
| Route of expos | ure Acu | ite Ac | ute | Chronic | Chronic | Acute | Acute | Chronic | Chronic |
| | loca | al sy | stemic | local | systemic | local | systemic | local | systemic |
| Oral | | , | | | • | | • | | 1,6 |
| | | | | | | | | | mg/kg/d |
| Inhalation | | | | | 14,8 | 289 | 289 | | 77 |
| | | | | | mg/m3 | mg/m3 | mg/m3 | | mg/m3 |
| Skin | | | | | 108 | <u> </u> | - | | 180 |
| | | | | | mg/kg/d | | | | mg/kg/d |

| | | | | ETHYL | BENZENE | |
|-------------------|---------|--------|------|----------|---------|------------------------|
| Threshold Limit V | /alue | | | | | |
| Туре | Country | TWA/8h | | STEL/15r | min | Remarks / Observations |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 200 | 45,4 | 500 | 113,5 | SKIN |
| AGW | DEU | 88 | 20 | 176 | 40 | SKIN |
| MAK | DEU | 88 | 20 | 176 | 40 | SKIN |
| VLA | ESP | 441 | 100 | 884 | 200 | SKIN |
| VLEP | FRA | 88,4 | 20 | 442 | 100 | SKIN |
| TLV | GRC | 435 | 100 | 545 | 125 | |
| AK | HUN | 442 | | 884 | | SKIN |
| GVI/KGVI | HRV | 442 | 100 | 884 | 200 | SKIN |
| VLEP | ITA | 442 | 100 | 884 | 200 | SKIN |
| TGG | NLD | 215 | | 430 | | SKIN |
| VLE | PRT | 442 | 100 | 884 | 200 | SKIN |
| NDS/NDSCh | POL | 200 | | 400 | | SKIN |
| TLV | ROU | 442 | 100 | 884 | 200 | SKIN |
| MV | SVN | 442 | 100 | 884 | 200 | SKIN |
| WEL | GBR | 441 | 100 | 552 | 125 | SKIN |
| OEL | EU | 442 | 100 | 884 | 200 | SKIN |
| TLV-ACGIH | | 87 | 20 | | | |



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SECTION 8. Exposure controls/personal protection

| | | | | то | LUENE | | |
|-------------------|---------|--------|--------|---------|---------|------------------------|--|
| Threshold Limit V | /alue | | | | | | |
| Туре | Country | TWA/8h | | STEL/15 | min | Remarks / Observations | |
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| TLV | CZE | 192 | 50,112 | 384 | 100,224 | SKIN | |
| AGW | DEU | 190 | 50 | 760 | 200 | SKIN | |
| MAK | DEU | 190 | 50 | 760 | 200 | SKIN | |
| VLA | ESP | 192 | 50 | 384 | 100 | SKIN | |
| VLEP | FRA | 76,8 | 20 | 384 | 100 | SKIN | |
| TLV | GRC | 192 | 50 | 384 | 100 | | |
| AK | HUN | 190 | | 380 | | SKIN | |
| GVI/KGVI | HRV | 192 | 50 | 384 | 100 | SKIN | |
| VLEP | ITA | 192 | 50 | | | SKIN | |
| TGG | NLD | 150 | | 384 | | | |
| VLE | PRT | 192 | 50 | 384 | 100 | SKIN | |
| NDS/NDSCh | POL | 100 | | 200 | | SKIN | |
| TLV | ROU | 192 | 50 | 384 | 100 | SKIN | |
| MV | SVN | 192 | 50 | 384 | 100 | SKIN | |
| WEL | GBR | 191 | 50 | 384 | 100 | SKIN | |
| OEL | EU | 192 | 50 | 384 | 100 | SKIN | |
| TLV-ACGIH | | | 20 | | | | |

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

NND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low

hazard; MED = medium hazard; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

PropertiesValueAppearanceviscous liquidColourdark grey

Information





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SECTION 9. Physical and chemical properties .../>>

characteristic Melting point / freezing point not available Initial boiling point not available Flammability not available Lower explosive limit not available Upper explosive limit not available Flash point 150 not available Auto-ignition temperature Decomposition temperature not available not available Kinematic viscosity not available Solubility not available Partition coefficient: n-octanol/water not available Vapour pressure not available Density and/or relative density 1,6 kg/l Relative vapour density not available Particle characteristics not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC): 1,14 % - 18,24 g/litre VOC (volatile carbon) 0,12 % - 1,86 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ETHYLENE GLYCOL

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

TOLUENE

Avoid exposure to: light.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ETHYLENE GLYCOL

Risk of explosion on contact with: perchloric acid.May react dangerously with: chlorosulphuric acid,sodium hydroxide,sulphuric acid,phosphorus pentasulphide,chromium (III) oxide,chromyl chloride,potassium perchlorate,potassium dichromate,sodium peroxide,aluminium.Forms explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids. sulphur.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

ETHYLENE GLYCOL

Avoid exposure to: sources of heat,naked flames.



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SECTION 10. Stability and reactivity .../>>

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

ETHYLENE GLYCOL

May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

ETHYLENE GLYCOL

WORKERS: inhalation: contact with the skin.

POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of envoronmental air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

ETHYLENE GLYCOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.



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SECTION 11. Toxicological information .../>>

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

Alkyl (C12-14) glycidyl ether

LD50 (Dermal): > 10000 mg/kg Rat

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and

[2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane

LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): > 5000 mg/kg Rat

ETHYLENE GLYCOL

LD50 (Dermal): 9530 mg/kg Rabbit LD50 (Oral): 9530 mg/kg Rat

STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

XYLENE (MIXTURE OF ISOMERS)

LD50 (Dermal): 4350 mg/kg Rabbit

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 26 mg/l/4h Rat

ETHYLBENZENE

 LD50 (Dermal):
 15354 mg/kg Rabbit

 LD50 (Oral):
 3500 mg/kg Rat

 LC50 (Inhalation vapours):
 17,2 mg/l/4h Rat

TOLUENE

 LD50 (Dermal):
 12124 mg/kg Rabbit

 LD50 (Oral):
 5580 mg/kg Rat

 LC50 (Inhalation vapours):
 28,1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHYLENE GLYCOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).



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SECTION 11. Toxicological information .../>>

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999)

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

Alkyl (C12-14) glycidyl ether

LC50 - for Fish > 5000 mg/l/96h Rainbow trout

Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and

 $[2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl) oxirane\ and\ [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane\ and\ [2,2'-[methylenebis(2,1-phenyleneoxymethyl$

LC50 - for Fish 2,54 mg/l/96h

EC50 - for Crustacea 2,55 mg/l/48h Daphnia Magna

EC50 - for Algae / Aquatic Plants 1,8 mg/l/72h

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane LC50 - for Fish 1,5 mg/l/96h Fish

12.2. Persistence and degradability

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable





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SECTION 12. Ecological information .../>>

ETHYLENE GLYCOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

Alkyl (C12-14) glycidyl ether

Solubility in water 0,483 mg/l

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

12.3. Bioaccumulative potential

TOLUENE

Partition coefficient: n-octanol/water 2,73 BCF 90

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

ETHYLENE GLYCOL

Partition coefficient: n-octanol/water -1.36

Alkyl (C12-14) glycidyl ether

BCF 263

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 BCF 25,9

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Partition coefficient: n-octanol/water > 2,918
BCF 31

12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Partition coefficient: soil/water 2,65

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.



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CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or

5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Reaction mass of

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Reaction mass of

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID. N.O.S.

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $(2,2'\hbox{-}[(1\hbox{-methylethylidene})bis (4,1\hbox{-phenylene}oxymethylene)] bis oxirane; \ Reaction\ mass\ of$

2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane)

14.3. Transport hazard class(es)

IATA:

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

14.4. Packing group

ADR / RID, IMDG, IATA: III



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SECTION 14. Transport information .../>>

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID: HIN - Kemler: 90 Limited Quantities: 5 L Tunnel restriction code: (-)

Special provision: IMDG: EMS: F-A, S-F Limited Quantities: 5 L

IATA: Cargo: Maximum quantity: 450 L Packaging instructions: 964
Passengers: Maximum quantity: 450 L Packaging instructions: 964
Packaging instructions: 964

Special provision: A97, A158, A197, A215

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Point 48 TOLUENE

REACH Reg.: 01-2119471310-51

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC):

Two-pack reactive performance coatings for specific end use such as floors.



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SECTION 15. Regulatory information .../>>

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2
Acute Tox. 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.

H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).



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SECTION 16. Other information .../>>

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.