

SÜDWEST 2K-Acryl-Härter lang

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

EUH066	Repeated exposure may cause skin dryness or cracking.
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Precautionary statements

Prevention: P210	Keep away from heat, hot surfaces,
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P280	sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
Response: P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Disposal: P501	Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

Hazardous components which must be listed on the label:

Hydrocarbons, C9, aromatics
Hexamethylene diisocyanate, homopolymer

Additional Labelling:

EUH204

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Polyurethane hardener based on aliphatic polyisocyanate

Components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Hydrocarbons, C9, aromatics	64742-95-6 01-2119455851-35- XXXX	Asp. Tox.1; H304 Flam. Liq.3; H226 STOT SE3; H335, H336 Aquatic Chronic2;	≥ 30 - < 50

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		H411 Note H (Table 3.1), Note P The CAS number is no longer specified in REACH registration, but still serves as identification in other areas.	
Hexamethylene diisocyanate, homopolymer	28182-81-2 01-2119488934-20- XXXX	Acute Tox.4; H332 Skin Sens.1; H317 STOT SE3; H335	≥ 30 - < 50
xylene	1330-20-7 215-535-7 01-2119488216-32- XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	≥ 5 - < 10
4- isocyanatosulphonylt oluene	4083-64-1 223-810-8 01-2119980050-47- XXXX	Eye Irrit.2; H319 STOT SE3; H335 Skin Irrit.2; H315 Resp. Sens.1; H334	≥ 0,1 - < 1
Substances with a workplace exposure limit :			
2-methoxy-1- methylethyl acetate	108-65-6 203-603-9 01-2119475791-29- XXXX	Flam. Liq.3; H226 STOT SE3; H336	≥ 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

When symptoms persist or in all cases of doubt seek
medical advice.
First aider needs to protect himself.

Inhalation

Move to fresh air in case of accidental inhalation of vapours
or decomposition products.
Consult a physician after significant exposure.

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Skin contact	Take off contaminated clothing and shoes immediately. Take off contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If symptoms persist, call a physician.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician. Eye rinsing bottle must be kept immediately to hand.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically.
No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

5.2 Special hazards arising from the substance or mixture

Fire may cause evolution of:
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Complete suit protecting against chemicals

Additional advice

Use water spray to cool unopened containers.
Water for fire fighting must not be emptied into drains, earth or waters. Contaminated water and earth must be disposed of according to official local regulations.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe fumes / aerosol
Do not get in eyes, on skin, or on clothing.
Use personal protective equipment.
Ensure adequate ventilation.
Prevent unauthorized access.

6.2 Environmental precautions

Prevent seepage into sewage system, workpits and cellars.
Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Subsequently put in the waste container. Do not seal (CO₂ may be given off)
Clean contaminated surface thoroughly.
Suitable cleaning agents
Water
Should not be released into the environment.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.
Do not breathe vapours or spray mist.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Comply with the statutory regulations on health and safety at work.
Do not re-use empty containers.

Hygiene measures

Take off immediately all contaminated clothing.
Keep working clothes separately.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash hands before breaks and immediately after handling the product.

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After washing hands, replenish lost skin oil by means of oily skin ointment.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep out of reach of children. Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect from frost, heat and sunlight. Keep in a dry place.
Advice on protection against fire and explosion	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit values. Vapours are heavier than air and may spread along floors. Flammable gas-air mixtures may be formed in empty receptacles. Keep product and empty container away from heat and sources of ignition. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Operators should wear antistatic footwear and clothing. No sparking tools should be used.
Advice on common storage	Keep away from oxidizing agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

7.3 Specific end use(s) For further information, see also Technical Data Sheet for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

xylene		1330-20-7
2000/39/EC	Limit Value - eight hours	221 mg/m ³
2000/39/EC	Limit Value - eight hours	50 ppm
Additional advice:	Identifies the possibility of significant uptake through the skin Indicative	
2000/39/EC	Short term exposure limit	442 mg/m ³
2000/39/EC	Short term exposure limit	100 ppm

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Additional advice: Identifies the possibility of significant uptake through the skin
Indicative

2-methoxy-1-methylethyl acetate	108-65-6
2000/39/EC	Short term exposure limit 550 mg/m ³
2000/39/EC	Short term exposure limit 100 ppm

Additional advice: Identifies the possibility of significant uptake through the skin
Indicative

2000/39/EC	Limit Value - eight hours 275 mg/m ³
2000/39/EC	Limit Value - eight hours 50 ppm

Additional advice: Identifies the possibility of significant uptake through the skin
Indicative

The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls

Ensure good ventilation; if possible, use / install internal extractor equipment.
Washing facilities / water for rinsing eyes and skin should be available.

Individual protection measures, such as personal protective equipment

a) Eye/face protection Safety glasses with side-shields conforming to EN166

b) Skin protection
Hand protection

Wearing time: < 60 min
Minimum thickness: 0,4 mm
Gloves made of the following materials are suitable as protection from splashes:
Gloves made of nitrile rubber, e.g. KCL 730 Camatril®
Velours (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.
Wetted gloves must be disposed of immediately!

Wearing time: > 480 min
Minimum thickness: 0,7 mm
Gloves in the following material can be used for prolonged contact up to max. 8 hours:

Fluorocarbon rubber gloves eg. KCL 890 Vitoject®
(Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equal.
Dispose of wetted gloves at the end of the shift!

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The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Cotton undergloves are recommendable when wearing protective gloves!

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

Body Protection

Impervious clothing

If splashes are likely to occur, wear:

Solvent-resistant apron and boots

c) Respiratory protection

For brief exposure or low level concentrations use a respiratory filter; for more intense or longer exposure use a self-contained respiratory protective device.

Respiratory filter for brief exposure:

Combination filter A-P2

Respiratory protection complying with EN 14387.

General precautions and other information

The instructions for the personal protective equipment apply to the handling of both individual components and of the ready-to-use mixture.

Environmental exposure controls

General advice

Prevent seepage into sewage system, workpits and cellars.

Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	No data available
pH	not determined
Melting point/freezing point	No data available

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Initial boiling point and boiling range	> 124 °C
Flash point	27 °C Method: ISO 13736
Evaporation rate	not determined
Flammability (solid, gas)	not applicable
Upper explosion limit / Upper flammability limit	7,5 %(V) Upper explosion limit
Lower explosion limit / Lower flammability limit	0,6 %(V) Lower explosion limit
Vapour pressure	13 hPa (20 °C)
Vapour density	No data available
Density	ca. 0,951 g/cm ³
Solubility(ies) Water solubility	insoluble
Partition coefficient: n- octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity Viscosity, dynamic	No data available
Viscosity, kinematic	ca. 5,3 mm ² /s (40 °C)
Explosive properties	Not explosive In use may form flammable/explosive vapour-air mixture.
Oxidizing properties	Not applicable

9.2 Other information

Flow time	12 s at 20 °C Method: ISO 2431
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Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity

Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Hexamethylene diisocyanate, homopolymer:

Acute inhalation toxicity

LC50 (Rat): 0,1 - 0,5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

The substance was tested in a form (i.e. specific particle size distribution) that is different from the forms in which the substance is placed on the market and in which it can reasonably be expected to be used. Based on the "split-entry" concept and available data on particle size during end-use of the substance a modified classification for acute inhalation toxicity is justified.

Conversion value of the acute toxicity 1.5 mg/l

xylene:

Acute inhalation toxicity

LC50 (Rat): 11 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity

Harmful in contact with skin.

Skin corrosion/irritation

Product:

Repeated exposure may cause skin dryness or cracking.

Components:

Hydrocarbons, C9, aromatics:

Repeated exposure may cause skin dryness or cracking.

xylene:

Causes skin irritation.

4-isocyanatosulphonyltoluene:

Causes skin irritation.

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Serious eye damage/eye irritation

Product:

Based on available data, the classification criteria are not met.

Components:

xylene:

Causes serious eye irritation.

4-isocyanatosulphonyltoluene:

Causes serious eye irritation.

Respiratory or skin sensitisation

Product:

May cause an allergic skin reaction.
Does not cause respiratory sensitisation.

Components:

Hexamethylene diisocyanate, homopolymer:

Species

Mouse

Method

OECD Test Guideline 429

May cause an allergic skin reaction.

4-isocyanatosulphonyltoluene:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Product:

Genotoxicity in vitro

Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Effects on fertility

Based on available data, the classification criteria are not met.

Developmental Toxicity

Based on available data, the classification criteria are not met.

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STOT - single exposure**Product:**

Assessment May cause respiratory irritation., May cause drowsiness or dizziness.

Components:**Hydrocarbons, C9, aromatics:**

Exposure routes Inhalation
Assessment May cause respiratory irritation., May cause drowsiness or dizziness.

Hexamethylene diisocyanate, homopolymer:

Exposure routes Inhalation
Assessment May cause respiratory irritation.

xylene:

Exposure routes Inhalation
Assessment May cause respiratory irritation.

4-isocyanatosulphonyltoluene:

Exposure routes Inhalation
Assessment May cause respiratory irritation.

2-methoxy-1-methylethyl acetate:

Assessment May cause drowsiness or dizziness.

STOT - repeated exposure**Product:**

Based on available data, the classification criteria are not met.

Components:**xylene:**

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

Aspiration toxicity**Product:**

May be fatal if swallowed and enters airways.

Components:**Hydrocarbons, C9, aromatics:**

May be fatal if swallowed and enters airways.

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xylene:

May be fatal if swallowed and enters airways.

Experience with human exposure**Product:**

General Information

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.
Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

Further information**Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Product:**

Toxicity to fish

No data available

Components:**Hydrocarbons, C9, aromatics :**

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 9,22 mg/l
Exposure time: 96 h

Toxicity to daphnia and
other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6,14 mg/l
Exposure time: 48 h

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12.2 Persistence and degradability

Product:

Biodegradability No data available

Components:

Hydrocarbons, C9, aromatics :

Biodegradability Result: rapidly degradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

Components:

xylene :

Partition coefficient: n-
octanol/water log Pow: > 3

2-methoxy-1-methylethyl acetate :

Partition coefficient: n-
octanol/water log Pow: 0,43 (20 °C)

12.4 Mobility in soil

Product:

Mobility No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Additional ecological
information Do not allow product to enter into ground water, bodies of water or sewage systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Product	<p>The user is responsible for proper coding and marking of any waste.</p> <p>When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste"</p> <p>Unhardened product residues should be disposed of under the recommended waste code number.</p>
Contaminated packaging	<p>Packaging that is not properly emptied must be disposed of as the unused product.</p> <p>Empty packaging should be recycled through disposal systems.</p>
Waste key for the unused product	<p>08 01 11* waste paint and varnish containing organic solvents or other hazardous substances</p> <p>(*) hazardous waste in terms of the European directive 2008/98/EG</p>

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	1866
IMDG	1866
IATA	1866

14.2 UN proper shipping name

ADR	RESIN SOLUTION
IMDG	RESIN SOLUTION (Hydrocarbons, C9, aromatics)
IATA	Resin solution

14.3 Transport hazard class(es)

ADR	3
IMDG	3
IATA	3

14.4 Packing group

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SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU 68,24 %

VOC
Directive 2004/42/EC

does not fall under Directive 2004/42/EC

Regulation (EC) No
649/2012 of the European
Parliament and the Council
concerning the export and
import of dangerous
chemicals Not applicable

Further notes For further information, see also Technical Data Sheet for the product.

15.2 Chemical safety assessment

This information is not available.

SECTION 16: OTHER INFORMATION

Changes from the previous version are indicated by markings in the left-hand margin.

The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

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Full text of H-Statements

H226	: Flammable liquid and vapour.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading

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Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing
MSDS
REG_EU / EN

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