

SAFETY DATA SHEET

SÜDWEST Schnellhärter

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name SÜDWEST Schnellhärter

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

Accelerator
Reserved for industrial and professional use.

Uses advised against This information is not available.

1.3 Details of the supplier of the safety data sheet

SÜDWEST Lacke + Farben GmbH & Co.KG
Iggelheimer Str. 13
D - 67459 Böhl-Iggelheim
Telephone: (+49)6324/709-0
Telefax: (+49)6324/709-175
www.suedwest.de

E-mail address of person responsible for the SDS
European Union sdb@suedwest.de

1.4 Emergency telephone number European Union

Phone: +44 (0)1235 239 670

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin sensitisation, Category H317: May cause an allergic skin reaction.

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1

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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.

Disposal:

P501	Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.
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Hazardous components
which must be listed on

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the label:

n-butyl acetate
Isophorone diisocyanate homopolymer**Additional Labelling:**

EUH204

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

Chemical nature

Aliphatic polyurethane dissolved in organic solvents.

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 01-2119485493-29-XXXX	Flam. Liq.3; H226 STOT SE3; H336	≥ 75 - < 80
Isophorone diisocyanate homopolymer	53880-05-0 01-2119488734-24-XXXX	Skin Sens.1; H317 STOT SE3; H335	≥ 20 - < 25
4-isocyanatosulphonyltoluene	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
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9 223-861-6 01-2119490408-31-XXXX	Acute Tox.1; H330 Eye Irrit.2; H319 STOT SE3; H335 Skin Irrit.2; H315 Resp. Sens.1; H334 Skin Sens.1; H317 Aquatic Chronic2; H411 Note 2	≥ 0,1 - < 0,25

For explanation of abbreviations see section 16.

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

Treatment	Treat symptomatically. No information available.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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Unsuitable extinguishing media	High volume water jet
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5.2 Special hazards arising from the substance or mixture

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

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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

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours, aerosols.
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.

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

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.
Wash hands before breaks and immediately after handling

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the product.

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

Contains no substances with occupational exposure limit values. The lists that were valid during the creation were used as basis.

8.2 Exposure controls

Appropriate engineering controls

Washing facilities / water for rinsing eyes and skin should be available.

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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!

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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

In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended Filter type:

A/P2 combination filter, alternatively a respiratory protective device independent from the surrounding air.

Respiratory protection complying with EN 14387.

For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

General precautions and

The instructions for the personal protective equipment apply

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other information 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	various
Odour	characteristic
Odour Threshold	No data available
pH	not determined
Melting point/freezing point	No data available
Initial boiling point and boiling range	> 124 °C
Flash point	28,75 °C
Evaporation rate	not determined
Flammability (solid, gas)	not applicable
Lower explosion limit	1,2 %(V)
Upper explosion limit	7,5 %(V)
Vapour pressure	13 hPa, 20 °C
Vapour density	No data available
Density	ca. 0,935 g/cm ³
Solubility(ies)(Water)	insoluble
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Ignition temperature	420 °C
Viscosity, dynamic	No data available
Viscosity, kinematic	ca. 10,7 mm ² /s, 40 °C
Explosive properties	Not explosive, In use may form flammable/explosive vapour-air mixture.

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Oxidizing properties Not applicable

9.2 Other information

Flow time ca. 10 s, 20 °C, ISO 2431
Solid content 23,06 %

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions Amines and alcohols cause exothermic reactions.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
With water (moisture): CO₂ is produced; pressure may build up inside closed containers (danger of bursting)

10.4 Conditions to avoid

Conditions to avoid Direct sources of heat.
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid Acids and bases
Amines and alcohols cause exothermic reactions.

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored and applied as directed.
In case of fire hazardous decomposition products may be produced such as:
Isocyanates
Hydrogen cyanide (hydrocyanic acid)

Decomposition temperature No data available

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Acute oral toxicity	Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Acute toxicity estimate : > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause sensitisation by skin contact. Does not cause respiratory sensitisation.
Germ cell mutagenicity	
Genotoxicity in vitro	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity Effects on fertility	Based on available data, the classification criteria are not met.

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Developmental Toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Inhalation May cause respiratory irritation., May cause drowsiness or dizziness.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Human experience	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	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).

Components:
n-butyl acetate :

Acute oral toxicity	LD50 Rat: 10.760 mg/kg
Acute inhalation toxicity	LC50 Rat: 23,4 mg/l Exposure time: 4 h Method: OECD Test Guideline 403

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Acute dermal toxicity	LD50 Rabbit: > 14.112 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
STOT - single exposure	Exposure routes: inhalation (vapour) May cause drowsiness or dizziness.

Isophorone diisocyanate homopolymer :

Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT - single exposure	Exposure routes: Inhalation May cause respiratory irritation.

4-isocyanatosulphonyltoluene :

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT - single exposure	Exposure routes: Inhalation May cause respiratory irritation.

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate :

Acute inhalation toxicity	LC50 Rat: 0,031 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Skin corrosion/irritation	Species: Rabbit

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Causes skin irritation.

Method: OECD Test Guideline 404

Serious eye damage/eye
irritation

Species: Rabbit

Causes serious eye irritation.

Respiratory or skin
sensitisation

May cause an allergic skin reaction.

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

STOT - single exposure

Exposure routes: Inhalation
Target Organs: Upper respiratory tract
May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish

No data available

12.2 Persistence and degradability

Product:

Biodegradability

Together with water the resin turns at the surface into a
solid and insoluble reaction product (polycarbamide)
with a high melting point, by forming carbondioxide.

Components:

n-butyl acetate :

Biodegradability

Result: rapidly degradable
Biodegradation: > 90 %

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Exposure time: 28 d

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate :

Biodegradability	Test Type: aerobic
	Inoculum: activated sludge
	Result: not rapidly degradable
	Biodegradation: 0 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential**Product:**

Bioaccumulation	No data available
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Components:**n-butyl acetate :**

Partition coefficient: n-octanol/water	log Pow: 2,3Method: OECD Test Guideline 117
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3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate :

Bioaccumulation	Bioaccumulation is unlikely.
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12.4 Mobility in soil

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.
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12.6 Other adverse effects**Product:**

Additional ecological information	Do not allow product to enter into ground water, bodies of water or sewage systems.
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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	Empty packaging should be recycled through disposal systems.
Waste key for the unused product	<p>08 01 11*: Paint and varnish waste containing organic solvents or other dangerous substances</p> <p>: (*) hazardous waste in terms of the European directive 91/689/EEC</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
IATA	Resin solution

14.3 Transport hazard class(es)

ADR	3
IMDG	3
IATA	3

14.4 Packing group

ADR	
Packing group	III

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Classification Code	F1
Hazard Identification Number	30
Labels	3
Tunnel restriction code	(D/E)

IMDG

Packaging group	III
Labels	3
EmS number	F-E, <u>S-E</u>

IATA

Packaging group	III
Labels	3

14.5 Environmental hazards

ADR

Environmentally hazardous	no
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IMDG

Marine pollutant	no
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14.6 Special precautions for user

Remarks	This information is not available.
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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks	Not applicable
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Additional advice

ADR	ADR: Up to 5 l per inner package, transport as limited quantity in accordance with ADR 3.4.
IMDG	IMDG: Up to 5 l per inner package, transport as limited quantity in accordance with IMDG Code 3.4.

SECTION 15: REGULATORY INFORMATION

Further notes does not fall under Directive 2004/42/EC
For further information, see also Technical Data Sheet for the product.

This information is not available.

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.

H226	: Flammable liquid and vapour.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H330	: Fatal 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.
H411	: Toxic to aquatic life with long lasting effects.

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Irrit.	: Eye irritation

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Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
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 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; 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.
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REG_EU / EN

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