

SÜDWEST Additiv FK

Acute aquatic toxicity,
Category 1

H400: Very toxic to aquatic life.

Chronic aquatic toxicity,
Category 1

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal word

Warning

Hazard statements

H351

Suspected of causing cancer.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201

Obtain special instructions before use.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid release to the environment.

P273

Response:

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

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:

isoproturon

Additional Labelling:

EUH208

Contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 3-iodo-2-propynyl butylcarbamate, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

For 2-Methyl-2H-Isothiazol-3-one (MIT), a labelling threshold of 15 ppm is voluntarily used in accordance with the CEPE recommendation (instead of 100 ppm).

SÜDWEST Additiv FK**2.3 Other hazards**

The classification does not take the inhalation toxic properties of the relevant ingredients into account as these were determined on the basis of a fine spray or dust.

This mixture, if handled and used in the customary way, does not pose any inhalation risk due to the aggregate state and the low vapour pressure of the relevant ingredients.

The classification takes all potential risks into account, which could be expected to occur when using dangerous materials and mixtures (CLP, Chapter 1).

Results of PBT and vPvB assessment

Not applicable

Use biocides safely. Always read the label and product information before use.

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

Chemical nature Preservative

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
isoproturon	34123-59-6 251-835-4	Carc.2; H351 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 2,5 - < 5
Terbutryn	886-50-0 212-950-5	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	≥ 1 - < 2,5
3-iodo2-propynyl butylcarbamate	55406-53-6 259-627-5	STOT RE1; H372 Eye Dam.1; H318 Acute Tox.3; H331 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410 Acute Tox.4; H302	≥ 0,25 - < 1
mixture of: 5-chloro- 2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Acute Tox.2; H330 Acute Tox.2; H310 Acute Tox.3; H301 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	< 0,0015

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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.
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

Fire may cause evolution of:
Carbon monoxide

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substance or mixture	Carbon dioxide (CO ₂) 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 fumes / aerosol 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). Dispose of contaminated material as waste according to item 13. Clean contaminated surface thoroughly. Suitable cleaning agents Clean with detergents. Avoid solvents.
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.
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Hygiene measures	Take off immediately all contaminated clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. After washing hands, replenish lost skin oil by means of oily skin ointment. When using do not eat, drink or smoke.
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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.
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Advice on common storage	Keep away from food and drink.
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7.3 Specific end use(s)	For further information, see also Technical Data Sheet for the product.
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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.

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: < 20 min
Minimum thickness: 0,2 mm
Gloves made of the following materials are suitable as protection from splashes:
Gloves made of nitrile rubber, e.g. KCL 743 Dermatril® P (Kächele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de), or equivalent.
Wetted gloves must be disposed of immediately! |

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Wearing time: > 480 min
Minimum thickness: 0,4 mm
Gloves in the following material can be used for prolonged contact up to max. 8 hours:

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.
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 inadequate ventilation wear respiratory protection.
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 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**

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Appearance	liquid
Colour	colourless
Odour	characteristic
Odour Threshold	not determined
pH	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	Not applicable
Evaporation rate	not determined
Flammability (solid, gas)	not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	23 hPa, 20 °C
Vapour density	No data available
Density	ca. 1,058 g/cm ³ , 20 °C, DIN 51757
Solubility(ies)(Water)	partly miscible
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not auto-flammable
Decomposition temperature	No data available
Viscosity, dynamic	not determined
Explosive properties	Not explosive
Oxidizing properties	Not applicable

9.2 Other information

Flow time	ca. 12 s, 20 °C, 4 mm, ISO 2431
Solid content	11,8 %

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10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions None reasonably foreseeable.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid Strong acids and strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition No decomposition if stored and applied as directed.
products
Decomposition No data available
temperature

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product

Acute oral toxicity	Acute toxicity estimate : > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are

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	not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity Genotoxicity in vitro	Based on available data, the classification criteria are not met.
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity 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.
STOT - single exposure	Based on available data, the classification criteria are not met.
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.
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:

isoproturon : Carcinogenicity	Suspected of causing cancer.
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Acute oral toxicity LD50 Rat: 1.000 - 1.470 mg/kg

Acute dermal toxicity LD50 Rabbit: > 2.000 mg/kg

3-iodo2-propynyl butylcarbamate :

Acute oral toxicity Harmful if swallowed.

Acute inhalation toxicity LC50 Rat: 3 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :

Acute oral toxicity Toxic if swallowed.

Acute inhalation toxicity Fatal if inhaled.

Acute dermal toxicity Fatal in contact with skin.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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	Method: OECD Test Guideline 202
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,049 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0046 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	10
Toxicity to fish (Chronic toxicity)	NOEC: 0,0084 mg/l Exposure time: 35 d Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0,010 mg/l Exposure time: 21 d Species: Daphnia (water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	1
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia (water flea)): 0,12 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l Exposure time: 48 h
	NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	100
Toxicity to fish (Chronic toxicity)	NOEC: 0,098 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
Toxicity to daphnia and	NOEC: 0,004 mg/l

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other aquatic invertebrates Exposure time: 21 d
(Chronic toxicity) Species: Daphnia (water flea)

M-Factor (Chronic aquatic 100
toxicity)

12.2 Persistence and degradability

Product:

Biodegradability No data available

Components:

Terbutryn :

Biodegradability Result: not rapidly degradable

3-iodo2-propynyl butylcarbamate :

Biodegradability Result: rapidly degradable

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) :

Biodegradability Result: not rapidly degradable

12.3 Bioaccumulative potential

Product:

Bioaccumulation No data available

Components:

isoproturon :

Partition coefficient: n- log Pow: 2,5
octanol/water

Terbutryn :

Partition coefficient: n- log Pow: 3,65 - 3,74
octanol/water

3-iodo2-propynyl butylcarbamate :

Partition coefficient: n- log Pow: 2,8
octanol/water

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

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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

Even small quantities emptied into the soil can affect the quality of drinking water. Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system. Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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*: 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	3082
IMDG	3082
IATA	3082

14.2 UN proper shipping name

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

(3-iodo2-propynyl butylcarbamate, isoproturon)

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

(3-iodo2-propynyl butylcarbamate, isoproturon)

IATA Environmentally hazardous substance, liquid, n.o.s.

(3-iodo2-propynyl butylcarbamate, isoproturon)

14.3 Transport hazard class(es)

ADR 9

IMDG 9

IATA 9

14.4 Packing group**ADR**

Packing group III

Classification Code M6

Hazard Identification
Number 90

Labels 9

IMDG

Packaging group III

Labels 9

EmS number F-A, S-F

IATA

Packaging group III

Labels 9

14.5 Environmental hazards**ADR**

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Environmentally hazardous yes

IMDG

Marine pollutant yes

14.6 Special precautions for user

Remarks This information is not available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks Not applicable

Additional advice

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

SECTION 15: REGULATORY INFORMATION

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

VOC
Directive 2010/75/EU 0 %

VOC
Directive 2004/42/EC

does not fall under Directive 2004/42/EC

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

Further notes Before use please consult technical data sheet and safety

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data sheet.

Do not use in the direct vicinity of bodies of water. Do not allow the agent or any product residues to enter into waters, the soil or the sewage system.

The effectiveness of the biocide is dependent on correct storage and observation of the use-by date.

Other regulations

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

Take note of Dir 94/33/EC on the protection of young people at work.

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.

Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H331	: Toxic if inhaled.
H351	: Suspected of causing cancer.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Skin Corr.	: Skin corrosion

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Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated 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.

Department issuing sdb@suedwest.de
MSDS
REG_EU / EN

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