SAFETY DATA SHEET

RUBBA FLEX BINDER ACTIVATOR

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

1.1. Product identifier

Trade name: RUBBA FLEX BINDER ACTIVATOR

Other names / Synonyms: ALIPHATIC CATALYST PART B (3% w/w)

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

Relevant identified uses of the substance or mixture: Additive
Restricted to professional users.

Use descriptors (UK REACH):

Sectors of use	Description
LCS "IS"	Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category	**Description**
PROC 0	Other

Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

The Rubber Company
TRC House, Unit 21 Romsey Industrial Estate, Greatbridge Road, Romsey
SO51 0HR Hampshire
United Kingdom
+44 (0) 1794 513 184
www.therubbercompany.com

E-mail: sales@therubbercompany.com

Revision: 03/10/2025

SDS Version: 1.0

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Repr. 1B; H360D, May damage the unborn child.
STOT RE 1; H372, Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram(s):

Signal word:	Danger
Hazard statement(s):	May damage the unborn child. (H360D) Causes damage to organs through prolonged or repeated exposure. (H372)
Precautionary statement(s):	
General:	Not applicable.
Prevention:	Obtain special instructions before use. (P201) Do not breathe vapour/mist. (P260) Wear eye protection/protective gloves/protective clothing. (P280)
Response:	IF exposed or concerned: Get medical advice/attention. (P308+P313) Get medical advice/attention if you feel unwell. (P314)
Storage:	Not applicable.
Disposal:	Dispose of contents/container in accordance with local regulation. (P501)
Hazardous substances:	stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate
Additional labelling:	Restricted to professional users.

2.3. Other hazards

Additional warnings:	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate	CAS No.: 3648-18-8 EC No.: 222-883-3 UK-REACH: UK-01-4760535389-6-XXXX Index No.: 050-031-00-9	25-40%	Repr. 1B, H360D STOT RE 1, H372	[4], [5]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).
[5] Substance is included in the Candidate List of substances of very high concern (SVHC).

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation: Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact: Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact: If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion: If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and

bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns: Not applicable.

4.2. Most important symptoms and effects, both acute and delayed
None known.

4.3. Indication of any immediate medical attention and special treatment needed
IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics
Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture
Fire will result in dense smoke. Exposure to combustion products may harm your health.
Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3. Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions
Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Keep only in original packaging.
Storage conditions:	5 - 30°C Dry, cool and well ventilated
Incompatible materials:	Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Long term exposure limit (8 hours) (mg/m^3): 5

stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate
Long term exposure limit (8 hours) (mg/m^3): 0,1
Short term exposure limit (15 minutes) (mg/m^3): 0,2
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	750 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	133.3 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	750 µg/m³
Long term – Systemic effects - Workers	Inhalation	18.8 mg/m³
Long term – Systemic effects - General population	Oral	750 µg/kg bw/day

stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Inhalation	900 ng/m³
Long term – Systemic effects - Workers	Inhalation	3.5 µg/m³
Long term – Systemic effects - General population	Oral	500 ng/kg bw/day

PNEC

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Soil		30 mg/kg

stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		1.8 ng/L
Freshwater sediment		27.98 µg/kg
Intermittent release (freshwater)		18 ng/L
Marine water		0.18 ng/L
Marine water sediment		2.798 µg/kg
Predators		20 µg/kg
Sewage treatment plant		100 mg/L
Soil		5.593 µg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

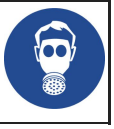
Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	Combination filter AXP2		Brown/White	EN14387, EN143	

Skin protection:

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour / Odour threshold:	None
pH:	No data available
Density (g/cm³):	0.97 (20 °C)
Bulk density (kg/m³):	Test method: ASTM D4052
Kinematic viscosity:	83 mPa.s (20 °C)
Particle characteristics:	Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):	-50
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	>300
Vapour pressure:	<0.01 mmHg (20 °C)
Relative vapour density:	>1 at 101 kPa
Decomposition temperature (°C):	No data available.

Data on fire and explosion hazards

Flash point (°C):	>200 Test method: ASTM D-92
Flammability (°C):	No data available.
Auto-ignition temperature (°C):	>400 Test method: ASTM E659
Lower and upper explosion limit (% v/v):	No data available.

Solubility

Solubility in water:	Practically insoluble
n-octanol/water coefficient (LogKow):	No data available.
Solubility in fat (g/L):	No data available.

9.2. Other information

Molecular Weight (g/mol):	418
Oxidizing properties:	None
Other physical and chemical parameters:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Extremes of temperature

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	>4.4 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>10000 mg/kg

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal

Test:	LC50
Result:	>3160 mg/kg

Product/substance	stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg

Product/substance	stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg

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

Skin corrosion/irritation

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 404
Result:	No adverse effect observed (Not irritating)

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

Serious eye damage/irritation

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 405
Result:	Adverse effect observed (Slightly irritating)

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

Respiratory sensitisation

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Result:	No adverse effect observed (not sensitising)

Other information:

The test result is not adequate for the purpose of classification and labelling of the product. Based on expert judgement and available data, a modified classification and labeling for acute inhalation toxicity is justified. The generation of a respirable aerosol must be prevented!

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

Skin sensitisation

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 406
Result:	No adverse effect observed (not sensitising)

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

Germ cell mutagenicity

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 471
Conclusion:	No adverse effect observed

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

Carcinogenicity

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 451
Conclusion:	No adverse effect observed

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

Reproductive toxicity

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 414
Conclusion:	No adverse effect observed

May damage the unborn child.

STOT-single exposure

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	No adverse effect observed

Other information:
Based on the available information there is no specific target organ toxicity to be expected.

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

STOT-repeated exposure

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Test method:	OECD 410
Conclusion:	No adverse effect observed

Other information:
Based on the available information there is no specific target organ toxicity to be expected.

Product/substance	stannane, dioctyl-, bis (coco acyloxy) derivs.;dioctyltin dilaurate
Target organ:	Immune system
Conclusion:	Adverse effect observed

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	Aspiration hazard not applicable

Other information:
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Nominal concentration.

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

11.2. Information on other hazards

Long term effects

Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders.

Endocrine disrupting properties

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	No adverse effect observed

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Other information:
Not expected to be harmful to aquatic organisms. Not expected to demonstrate chronic toxicity to aquatic organisms.

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Daphnia, Daphnia magna
Compartment:	Water
Duration:	48 hours
Test:	EC0
Result:	0.06 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Oncorhynchus mykiss
Compartment:	Water
Duration:	96 hours
Test:	LCLo
Result:	0.16 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Pseudokirchneriella subcapitata
Compartment:	Water
Duration:	5 days
Test:	EC0
Result:	1.8 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Pseudokirchneriella subcapitata
Compartment:	Water
Duration:	5 days
Test:	NOEC
Result:	1.8 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Daphnia, Daphnia magna
Compartment:	Water
Duration:	21 days
Test:	NOEC
Result:	0.0036 mg/L

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Species:	Oryzias latipes
Compartment:	Water
Duration:	12 months
Test:	NOEC
Result:	18.5 µg/g

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

12.2. Persistence and degradability

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	Readily biodegradable

12.3. Bioaccumulative potential

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	Potential for bioaccumulation is low

12.4. Mobility in soil

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
LogKoc = 5.9, Low mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

Product/substance	1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich
Conclusion:	No adverse effect observed

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 10 – Toxic for reproduction
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

16 08 03
Spent catalysts containing transition metals or transition metal compounds not otherwise specified

Specific labelling

Contaminated packing

EWC code:	16 08 03 Spent catalysts containing transition metals or transition metal compounds not otherwise specified

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product. Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.
Demands for specific education:	No specific requirements.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	Not applicable.
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals as retained and amended in UK law.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H360D, May damage the unborn child.
H372, Causes damage to organs through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites
PROC 0 = Other

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association

IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

cyates

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product.
Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en