SAFETY DATA SHEET

Ultrabond 787

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

1.1. Product identifier

Trade name:	Ultrabond 787
Product no.:	MS-787
Unique formula identifier (UFI):	U000-A0PG-V00Y-2KMN

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

Relevant identified uses of the substance or mixture:	Adhesive Restricted to professional users.
Uses advised against :	None known.

1.3. Details of the supplier of the safety data sheet

Company and address:	**Hernon Manufacturing Inc** 121 Tech Drive FL 32771 Sanford USA T: +1-407-322-4000 www.hernon.com
Contact person:	Hernon SDS Coordinator
E-mail:	customerservice@hernon.com
Revision:	27/02/2025
SDS Version:	1.0

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webpoisoncontrol (triage.webpoisoncontrol.org) to get specific guidance for your case.
VelocityEHS:
+1-800-255-3924 (USA)
+1-813-248-0585 (International)
1-300-954-583 (Australia)
0-800-591-6042 (Brazil)
400-120-0751 (China)
000-800-100-4086 (India)
800-099-0731 (Mexico)
Contract #: (MIS0002665)

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

Skin Irrit. 2; H315, Causes skin irritation.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Dam. 1; H318, Causes serious eye damage.
STOT SE 3; H335, May cause respiratory irritation.
Carc. 2; H351, Suspected of causing cancer.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1; H400, Very toxic to aquatic life.
Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s):
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye damage. (H318)
May cause respiratory irritation. (H335)
Suspected of causing cancer. (H351)
May cause damage to organs through prolonged or repeated exposure. (H373)
Very toxic to aquatic life with long lasting effects. (H410)

Precautionary statement(s):

General: -

Prevention:
Do not breathe vapour/mist. (P260)
Wear eye protection/protective clothing. (P280)

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER/doctor. (P310)

Storage:
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal:
Dispose of contents/container in accordance with local regulation
(P501)

Hazardous substances:
Isobornylacrylate
1-vinyl-2-pyrrolidone
Hydroxycyclohexyl phenyl ketone
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Additional labelling:
UFI: U000-A0PG-V00Y-2KMN

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
Isobornylacrylate	CAS No.: 5888-33-5 EC No.: 227-561-6 UK-REACH: Index No.: 607-756-00-6	15-40%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
1-vinyl-2-pyrrolidone	CAS No.: 88-12-0 EC No.: 201-800-4 UK-REACH: Index No.: 613-168-00-0	10-30%	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 (Liver)	
Hydroxycyclohexyl phenyl ketone	CAS No.: 947-19-3 EC No.: 213-426-9 UK-REACH: Index No.:	1-5%	Aquatic Chronic 3, H412	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS No.: 2530-83-8 EC No.: 219-784-2 UK-REACH: Index No.:	1-5%	Eye Dam. 1, H318 Aquatic Chronic 3, H412	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	CAS No.: 162881-26-7 EC No.: 423-340-5 UK-REACH: Index No.: 015-189-00-5	0.1-1%	Skin Sens. 1A, H317 Aquatic Chronic 4, H413	

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

Other information

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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 plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately 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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get 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:
Nitrogen oxides (NO_x)
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.
Hazchem Code: ●3Z

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.
Avoid inhalation of vapours from spilled material.
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

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

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Always store in containers of the same material as the original container.
Storage conditions:	Dry, cool and well ventilated Keep at temperatures between 7 and 29 °C. Keep away from any light sources

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Protect from moisture.
Protect from sunlight.

Incompatible materials: Free radical initiators
Acids
Bases
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
No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	17 mg/m³
Long term – Systemic effects - Workers	Inhalation	70.5 mg/m³
Short term – Systemic effects - General population	Inhalation	26400 mg/m³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

1-vinyl-2-pyrrolidone

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	14 µg/kg bw/day
Long term – Local effects - Workers	Inhalation	300 µg/m³
Long term – Systemic effects - Workers	Inhalation	100 µg/m³
Short term – Local effects - Workers	Inhalation	400 µg/m³
Short term – Systemic effects - Workers	Inhalation	400 µg/m³

Hydroxycyclohexyl phenyl ketone

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	694 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.94 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.21 mg/m³
Long term – Systemic effects - Workers	Inhalation	6.8 mg/m³
Long term – Systemic effects - General population	Oral	694 µg/kg bw/day

Isobornylacrylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	830 µg/kg bw/day

Long term – Systemic effects - Workers	Dermal	1.39 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.45 mg/m³
Long term – Systemic effects - Workers	Inhalation	4.9 mg/m³
Long term – Systemic effects - General population	Oral	830 µg/kg bw/day

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	1.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	3 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	1.67 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	3.33 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.93 mg/m³
Long term – Systemic effects - Workers	Inhalation	7.84 mg/m³
Short term – Systemic effects - General population	Inhalation	1.93 mg/m³
Short term – Systemic effects - Workers	Inhalation	7.84 mg/m³
Long term – Systemic effects - General population	Oral	1.5 mg/kg bw/day
Short term – Systemic effects - General population	Oral	1.67 ng/kg bw/day

PNEC

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		450 µg/L
Freshwater sediment		1.6 mg/kg
Intermittent release (freshwater)		450 µg/L
Marine water		45 µg/L
Marine water sediment		160 µg/kg
Sewage treatment plant		8.2 mg/L
Soil		63 µg/kg

1-vinyl-2-pyrrolidone

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		45 µg/L
Freshwater sediment		220 µg/kg
Marine water		4 µg/L
Marine water sediment		20 µg/kg
Sewage treatment plant		3.373 g/L
Soil		17 µg/kg

Hydroxycyclohexyl phenyl ketone

Route of exposure:	**Duration of Exposure:**	**PNEC:**

Freshwater		3 µg/L
Freshwater sediment		35.6 µg/kg
Intermittent release (freshwater)		144 µg/L
Intermittent release (marine water)		14.4 µg/L
Marine water		300 ng/L
Marine water sediment		3.56 µg/kg
Sewage treatment plant		10 mg/L
Soil		5.37 µg/kg

Isobornylacrylate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		920 ng/L
Freshwater sediment		145 µg/kg
Intermittent release (freshwater)		7.04 µg/L
Marine water		92 ng/L
Marine water sediment		14.5 µg/kg
Sewage treatment plant		2 mg/L
Soil		28.5 µg/kg

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		800-1000 ng/L
Freshwater sediment		712 µg/kg
Intermittent release (freshwater)		800-1000 ng/L
Marine water		800-1000 ng/L
Marine water sediment		712 µg/kg
Sewage treatment plant		1 mg/L
Soil		20 mg/kg

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

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: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Do not recirculate outlet air that contain the substances. Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product.
Avoid inhalation of vapours.

Hygiene measures: Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental Keep damming materials near the workplace. If possible,

exposure: collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Skin protection:

Recommended	Type/Category	Standards	
-	Protective Clothing		

Hand protection:
Nitrile Rubber

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: Yellow
Odour / Odour threshold: Mild
pH: No data available
Density (g/cm^3): 1.25
Kinematic viscosity: No data available
Particle characteristics: No data available

Phase changes

Melting point/Freezing point (°C): No data available
Softening point/range (°C): Does not apply to liquids.
Boiling point (°C): >149
Vapour pressure: No data available
Relative vapour density: No data available
Decomposition temperature (°C): No data available

Data on fire and explosion hazards

Flash point (°C): >93.3
Flammability (°C): No data available

Auto-ignition temperature (°C):	No data available
Lower and upper explosion limit (% v/v):	No data available

Solubility

Solubility in water:	Very slightly soluble
n-octanol/water coefficient (LogKow):	No data available
Solubility in fat (g/L):	No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100):	No data available
Oxidizing properties:	No data available
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
Incompatible Materials
Extremes of temperature
Sunlight
Other light sources
Moisture
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials
Free radical initiators
Acids
Bases
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

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

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye damage.

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

Skin sensitisation
May cause an allergic skin reaction.

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

Carcinogenicity
Suspected of causing cancer.

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

STOT-single exposure
May cause respiratory irritation.

STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.

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

11.2. Information on other hazards

Long term effects
Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

Other information
1-vinyl-2-pyrrolidone has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
Based on available data, the classification criteria are not met.

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

12.4. Mobility in soil
No data available.

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

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

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7 – Carcinogenic
HP 13 – Sensitising
HP 14 – Ecotoxic
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

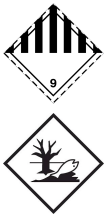
Not applicable.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

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	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (-) See below for additional information.

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L EmS: F-A S-F See below for additional information.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate)	Transport hazard class: 9 Label: 9 Classification code: M6 	III	Yes	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.
These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).
-
ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
Hazchem Code: ●3Z

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:	E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes
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. Control of Major Accident Hazards (COMAH) Regulations 2015. 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

H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H351, Suspected of causing cancer.
H373, May cause damage to organs through prolonged or repeated exposure. (Liver)
H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.
H413, May cause long lasting harmful effects to aquatic life.

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 classification of the substance/mixture in regard of environmental 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

SDS Coordinator

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