

SAFETY DATA SHEET

JLM Octane Booster

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Trade Name

JLM Octane Booster

Product no.

J03165

Unique formula identifier (UFI)

GRR8-H00K-G00C-97TT

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

None known.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet Company and address

JLM Lubricants BV

Schiphol Boulevard 127

1118BG Schiphol

The Netherlands

+31(0)20 2014995

www.jlmlubricants.com

Contact person

Product Safety Department

E-mail

info@jlmlubricants.com

Revision

24/01/2023

SDS Version

3.0

Date of previous version

24/10/2022 (2.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Acute Tox. 4; H332, Harmful if inhaled.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Danger

Hazard statement(s)

- May be fatal if swallowed and enters airways. (H304)
- Harmful if inhaled. (H332)
- May cause damage to organs through prolonged or repeated exposure. (H373)
- Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General

Keep out of reach of children. (P102)

Prevention

- Do not breathe vapour/mist. (P260)
- Use only outdoors or in a well-ventilated area. (P271)

Response

- Get medical advice/attention if you feel unwell. (P314)
- IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)

Storage

-

▼ Disposal

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

Hazardous substances

- Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
- Tricarbonyl(methylcyclopentadienyl)manganese
- Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;

▼ Additional labelling

- EUH066, Repeated exposure may cause skin dryness or cracking.
- UFI: 9SAR-HQ5U-EF06-KUNX

2.3. Other hazards

Additional warnings

- This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
- 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) 2018/605.

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
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	CAS No.: 246538-78-3 EC No.: 920-901-0 UK-REACH: Index No.: 920-901-0	80-95%	EUH066 Asp. Tox. 1, H304	
2-ethylhexan-1-ol	CAS No.: 104-76-7 EC No.: 203-234-3 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	[1]
Tricarbonyl(methylcyclopentadienyl)manganese	CAS No.: 12108-13-3 EC No.: 235-166-5 UK-REACH: Index No.:	1-3%	Acute Tox. 3, H301 (ATE: 58.00 mg/kg) Acute Tox. 2, H310 (ATE: 196.70 mg/kg) Skin Irrit. 2, H315 Acute Tox. 1, H330 (ATE: 0.247 mg/l) STOT RE 1, H372 (Lung) (Inhalation) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;	CAS No.: 64742-94-5 EC No.: 265-198-5 UK-REACH:	1-3%	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

	Index No.: 649-424-00-3			
naphthalene	CAS No.: 91-20-3 EC No.: 202-049-5 UK-REACH: Index No.: 601-052-00-2	<1%	Flam. Sol. 2, H228 Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]

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

Other information

[1] European occupational exposure limit.

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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

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

Upon irritation of the eye: Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Headache, Methaemoglobinaemia (naphthalene)

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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.
Avoid inhalation of vapours from spilled material.

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

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.
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

Keep only in original packaging.

Storage temperature

Dry, cool and well ventilated
Store out of direct sunlight.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing 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

2-ethylhexan-1-ol
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m³): 5,4

Tricarbonyl(methylcyclopentadienyl)manganese

Long term exposure limit (8 hours) (mg/m³): 0,2 (inhalable fraction as Mn) / 0,05 (respirable fraction as Mn)

naphthalene

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

2-ethylhexan-1-ol

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	11.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	23 mg/kg bw/day
Long term – Local effects - General population	Inhalation	26.6 mg/m ³
Long term – Local effects - Workers	Inhalation	53.2 mg/m ³
Long term – Systemic effects - General population	Inhalation	2.3 mg/m ³
Long term – Systemic effects - Workers	Inhalation	12.8 mg/m ³
Short term – Local effects - General population	Inhalation	26.6 mg/m ³
Short term – Local effects - Workers	Inhalation	53.2 mg/m ³
Long term – Systemic effects - General population	Oral	1.1 mg/kg bw/day

naphthalene

Duration	Route of exposure	DNEL
Long term – Systemic effects - Workers	Dermal	3,57 mg/kgbw/day
Long term – Systemic effects - Workers	Inhalation	25 mg/m ³

Tricarbonyl(methylcyclopentadienyl)manganese

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	62 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	110 µg/kgbw/day
Long term – Systemic effects - General population	Inhalation	110 µg/m ³
Long term – Systemic effects - Workers	Inhalation	600 µg/m ³

PNEC

2-ethylhexan-1-ol

Route of exposure	Duration of Exposure	PNEC
Freshwater		17 µg/L
Freshwater sediment		284 µg/kg
Intermittent release (freshwater)		170 µg/L
Marine water		1.7 µg/L
Marine water sediment		28.4 µg/kg
Predators		55 mg/kg
Sewage treatment plant		10 mg/L
Soil		47 µg/kg

naphthalene

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,0024 mg/L
Marine water		0,0024 mg/L

Tricarbonyl(methylcyclopentadienyl)manganese

Route of exposure	Duration of Exposure	PNEC
Freshwater		210 ng/L
Intermittent release (freshwater)		2.1 µg/L
Marine water		21 ng/L
Soil		16 µg/kg

8.2. ▼ Exposure controls

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

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.

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. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation			

Skin protection

Recommended	Type/Category	Standards
Dedicated work clothing should be worn	-	-



Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0,38	> 240	EN374-2, EN374-3, 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

Amber

Odour / Odour threshold

Characteristic

pH

Testing not relevant or not possible due to nature of the product.

Density (g/cm³)

0.7994

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Kinematic viscosity

No data available

Particle characteristics

Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C)

No data available

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

160

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

No data available

Decomposition temperature (°C)

No data available

Data on fire and explosion hazards

Flash point (°C)

62

Auto-Ignition (°C)

No data available

Flammability (°C)

No data available

Lower and upper explosion limit (% v/v)

0.6 - 7

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Evaporation rate (n-butylacetate = 100)

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

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	-,247 mg/L
Other information	

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	196,7 mg/kg
Other information	

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	OECD 423
Species	Rat
Route of exposure	Oral
Test	LD50
Result	58 mg/kg
Other information	

Product/substance	naphthalene
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>0,4 mg/L
Other information	

Product/substance	naphthalene
Test method	OECD 402
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>16000 mg/kg
Other information	

Product/substance	naphthalene
Test method	OECD 401
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	533 mg/kg
Other information	

Harmful if inhaled.

Skin corrosion/irritation

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	OECD 404
Species	Rabbit
Duration	
Result	Adverse effect observed (Moderately irritating)
Other information	

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Carcinogenicity

Product/substance	naphthalene
Test method	
Species	Rat
Route of exposure	Inhalation
Target organ	
Duration	24 months
Test	NOAEL
Result	
Conclusion	Adverse effect observed
Other information	

Reproductive 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

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

None known.

Other information

naphthalene has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	OECD 201
Species	Algae
Compartment	
Duration	48 hours
Test	EC50
Result	1,7 mg/L
Other information	

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	OECD 201
Species	Algae
Compartment	
Duration	48 hours
Test	EC50
Result	0,41 mg/L
Other information	

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	0,83 mg/L
Other information	

Product/substance	Tricarbonyl(methylcyclopentadienyl)manganese
Test method	OECD 203
Species	Fish, Cyprinus carpio
Compartment	
Duration	96 hours
Test	LC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result 0,21 mg/L
 Other information

Product/substance naphthalene
 Test method
 Species Algae, Pseudokirchneriella subcapitata
 Compartment
 Duration 96 hours
 Test EC50
 Result 2,96 mg/L
 Other information

Product/substance naphthalene
 Test method
 Species Daphnia, Daphnia magna
 Compartment
 Duration 48 hours
 Test EC50
 Result 2,16 mg/L
 Other information

Product/substance naphthalene
 Test method
 Species Fish, Oncorhynchus gorboscha
 Compartment
 Duration 96 hours
 Test LC50
 Result 0,96 mg/L
 Other information

Product/substance naphthalene
 Test method
 Species Daphnia, Daphnia pulex
 Compartment
 Duration 125 days
 Test NOEC
 Result 0,59 mg/L
 Other information

Product/substance naphthalene
 Test method
 Species Fish, Oncorhynchus gorboscha
 Compartment
 Duration 40 days
 Test NOEC
 Result 0,12 mg/L
 Other information

12.2. Persistence and degradability

Product/substance Tricarbonyl(methylcyclopentadienyl)manganese
 Biodegradable No
 Test method
 Result 4% - 56 days

Product/substance naphthalene
 Biodegradable No
 Test method
 Result 0 to 2 % - Not readily - 28 days

12.3. Bioaccumulative potential

Product/substance Tricarbonyl(methylcyclopentadienyl)manganese
 Test method
 Potential bioaccumulation No data available.
 LogPow 3,7
 BCF No data available.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information

Product/substance naphthalene
 Test method
 Potential bioaccumulation No data available.
 LogPow 36.5-168
 BCF 3,4
 Other information

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

None known.

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 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 6 - Acute toxicity

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

13 07 03* Other fuels (including mixtures)

Specific labelling

Not applicable.

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	-	-	-	-	-	-
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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Restrictions for application

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.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

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 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, Repeated exposure may cause skin dryness or cracking.

H228, Flammable solid.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H310, Fatal in contact with skin.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H330, Fatal if inhaled.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H336, May cause drowsiness or dizziness.

H351, Suspected of causing cancer.

H372, Causes damage to organs through prolonged or repeated exposure. (Lung) (Inhalation)

H400, Very toxic to aquatic life.

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

H411, Toxic to aquatic life with long lasting effects.

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

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

Hazard statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

Product Safety Department

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue 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