# **Safety Data Sheet**



according to Regulation (EC) No. 1907/2006 (REACH)

# Marathon (Algae) Sport 7-13-9

Version number: 1.0 First version: 2021-02-04

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

1.1 Product identifier

Trade name Marathon (Algae) Sport 7-13-9

**Registration number (REACH)**Not relevant (mixture).

**CAS number** not relevant (mixture)

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

Relevant identified uses Fertiliser

1.3 Details of the supplier of the safety data sheet

Olmix B.V. Telephone: ++31 (0) 26 - 38420 - 00

Arnhemsestraatweg 8 e-mail: info-nl@olmix.com

6881 NG Velp Netherlands

e-mail (competent person) sdb@csb-online.de

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact

Olmix B.V.

1.4 Emergency telephone number

As above or nearest toxicological information centre.

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

#### Classification

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word warning

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# **Pictograms**

GHS07



#### **Hazard statements**

**H319** Causes serious eye irritation.

### **Precautionary statements**

**P264** Wash thoroughly after handling.

**P280** Wear protective gloves/protective clothing/eye protection/face protection. **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture).

## 3.2 Mixtures

# **Description of the mixture**

#### **Hazardous ingredients**

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
iron(II) sulfate mono- hydrate	CAS No 17375-41-6 EC No 231-753-5 REACH Reg. No 01-2119513203- 57-xxxx	1-<10	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	•	GHS-HC
manganese sulphate monohydrate	CAS No 10034-96-5 EC No 232-089-9 Index No 025-003-00-4	1-<2	Eye Dam. 1 / H318 STOT RE 2 / H373 Aquatic Chronic 2 / H411		GHS-HC IOELV

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#### Notes

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to

HC: 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
iron(II) sulfate mono- hydrate	-	-	319 <sup>mg</sup> / <sub>kg</sub>	oral

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General notes**

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following inhalation**

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### **Following ingestion**

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

#### Notes for the doctor

None.

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

These information are not available.

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

None.

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# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

# Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder

#### Unsuitable extinguishing media

water jet

# 5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous decomposition products: Section 10.

Deposited combustible dust has considerable explosion potential.

#### **Hazardous combustion products**

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

# 5.3 Advice for firefighters

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

wear self-contained breathing apparatus

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Do not breathe dust.

Control of dust.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

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#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Take up mechanically.

# Advice on how to clean up a spill

Take up mechanically.

Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Do not breathe dust.

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Removal of dust deposits.

#### Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### **Explosive atmospheres**

Removal of dust deposits.

#### Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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# **Incompatible substances or mixtures**

Incompatible materials: see section 10.

# Protect against external exposure, such as

heat

#### **Consideration of other advice**

Keep away from food, drink and animal feeding stuffs.

## **Ventilation requirements**

Provision of sufficient ventilation.

## Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place. Keep cool.

# **Packaging compatibilities**

Keep only in original container.

# 7.3 Specific end use(s)

Fertiliser.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source
EU	manganese, inor- ganic compounds		IOELV		0.05			r	2017/164/ EU
EU	ammonia, anhyd- rous	7664-41-7	IOELV	20	14	50	36	proc	2000/39/EC
GB	iron salts		WEL		1		2	Fe	EH40/2005
GB	manganese, inorganic compounds		WEL		0.2			Mn, i	EH40/2005
GB	manganese, inor- ganic compounds		WEL		0.05			Mn, r	EH40/2005
GB	dust		WEL		10			i	EH40/2005
GB	dust		WEL		4			r	EH40/2005
GB	magnesium oxide	1309-48-4	WEL		10			Mg, i, dust	EH40/2005
GB	magnesium oxide	1309-48-4	WEL		4			r, df	EH40/2005
GB	ammonia, anhyd- rous	7664-41-7	WEL	25	18	35	25	proc	EH40/2005

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#### Notation

df as dust and fumes

dust as dust

Fe calculated as Fe (iron) i inhalable fraction

Mg calculated as Mg (magnesium)
Mn calculated as Mn (manganese)

proc substances released during the process

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period

of 8 hours time-weighted average (unless otherwise specified)

#### Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
iron(II) sulfate monohydrate	17375-41-6	DNEL	2.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
iron(II) sulfate monohydrate	17375-41-6	DNEL	1.4 mg/kg bw/day	human, dermal	consumer (private households)	chronic - system- ic effects
iron(II) sulfate monohydrate	17375-41-6	DNEL 0.28 mg/ human, oral consumer (private households)		chronic - system- ic effects		
manganese sulph- ate monohydrate	10034-96-5	DNEL	0.2 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - system- ic effects
manganese sulph- ate monohydrate	10034-96-5	DNEL	0.004 mg/ kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
manganese sulph- ate monohydrate	10034-96-5	DNEL	0.043 mg/ m³	human, inhalat- ory	consumer (private households)	chronic - system- ic effects
manganese sulph- ate monohydrate	10034-96-5	DNEL	0.002 mg/ kg bw/day	human, dermal	consumer (private households)	chronic - system- ic effects

# Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental com- partment
manganese sulphate mono- hydrate	10034-96-5	PNEC	0.03 <sup>mg</sup> / <sub>l</sub>	freshwater
manganese sulphate mono- hydrate	10034-96-5	PNEC	0 <sup>mg</sup> / <sub>l</sub>	marine water
manganese sulphate mono- hydrate	10034-96-5	PNEC	56 <sup>mg</sup> / <sub>l</sub>	sewage treatment plant (STP)

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#### **Relevant PNECs of components of the mixture**

Name of substance	CAS No	Endpoint	Threshold level	Environmental com- partment
manganese sulphate mono- hydrate	10034-96-5	PNEC	0.011 <sup>mg</sup> / <sub>kg</sub>	freshwater sediment
manganese sulphate mono- hydrate	10034-96-5	PNEC	0.001 <sup>mg</sup> / <sub>kg</sub>	marine sediment
manganese sulphate mono- hydrate	10034-96-5	PNEC	25.1 <sup>mg</sup> / <sub>kg</sub>	soil

# 8.2 Exposure controls

#### **Appropriate engineering controls**

General ventilation.

#### Individual protection measures (personal protective equipment)

#### **Eye/face protection**

Wear eye/face protection. (EN 166).

#### **Hand protection**

#### **Protective gloves**

Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Other protection measures

Protective clothing for use against solid particulates.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Physical state** solid

**Colour** This information is not available

**Odour** Characteristic

Melting point/freezing point Not determined

Boiling point or initial boiling point and boiling Not determined

range

Not determined

**Evaporation rate** Not determined

**Flammability** This material is combustible, but will not ignite

readily

Flash point Not applicable

Auto-ignition temperature Not determined

pH (value) Not applicable

Solubility(ies) Not determined

**Partition coefficient** 

partition coefficient n-octanol/water (log value) This information is not available

Vapour pressure Not determined

Density and/or relative density

Density Not determined

Particle characteristics no data available

Other safety parameters

Relative self-ignition temperature for solids

These information are not available

9.2 Other information

Information with regard to physical hazard

classes

hazard classes acc. to GHS (physical hazards): not

relevant

**Other safety characteristics** there is no additional information

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#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

## 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

## 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

#### **SECTION 11: Toxicological information**

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

#### **Classification procedure**

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

# **Acute toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Test data are not available for the complete mixture.

## Acute toxicity of components of the mixture

Name of substance	CAS No	Expos- ure route	End- point	Value	Species	Method	Source
iron(II) sulfate mono- hydrate	17375-41-6	oral	LD50	319 <sup>mg</sup> /	rat		GESTIS

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#### Acute toxicity of components of the mixture

Name of substance	CAS No	Expos- ure route	End- point	Value	Species	Method	Source
iron(II) sulfate mono- hydrate	17375-41-6	dermal	LD0	>2,000 <sup>mg</sup> / <sub>kg</sub>	rat	OECD Guideline 402	ECHA
manganese sulphate monohydrate	10034-96-5	oral	LD50	2,150 <sup>mg</sup> /	rat		ECHA

#### Skin corrosion/irritation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

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# 11.2 Information on other hazards

There is no additional information.

# **Endocrine disrupting properties**

None of the ingredients are listed.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

# **Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

# Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Method	Source	Expos- ure time
manganese sulphate mono- hydrate	10034-96-5	ErC50	61 <sup>mg</sup> / <sub>l</sub>	algae (Desmod- esmus sub- spicatus)	OECD Guideline 201	ECHA	72 h

## **Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Method	Source	Expos- ure time
manganese sulphate mono- hydrate	10034-96-5	EC50	>1,000 <sup>mg</sup> / <sub>I</sub>	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA	3 h
manganese sulphate mono- hydrate	10034-96-5	NOEC	1 <sup>mg</sup> / <sub>l</sub>	algae (Desmod- esmus sub- spicatus)	OECD Guideline 201	ECHA	72 h
manganese sulphate mono- hydrate	10034-96-5	NOEC	560 <sup>mg</sup> / <sub>l</sub>	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA	3 h

# 12.2 Persistence and degradability

#### **Biodegradation**

No data available.

#### **Persistence**

No data available.

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# 12.3 Bioaccumulative potential

No data available.

# 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

#### **Remarks**

Wassergefährdungsklasse, WGK (water hazard class): AWG. (Fertiliser)

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### **Remarks**

Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

14.1	UN number or ID number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

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# **SECTION 15: Regulatory information**

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Not all ingredients are listed.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list None of the ingredients are listed.

## **Seveso Directive**

Not assigned.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

**Water Framework Directive (WFD)** 

Not all ingredients are listed.

#### **List of pollutants (WFD)**

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
manganese sulphate mono- hydrate	Substances which contribute to eutrophication (in particular, nitrates and phosphates)		A)	
manganese sulphate mono- hydrate	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	
manganese sulphate mono- hydrate	Metals and their compounds		A)	
iron(II) sulfate monohydrate	Metals and their compounds		A)	

#### Legend

A) Indicative list of the main pollutants

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# Regulation 98/2013/EU on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

# **SECTION 16: Other information**

# **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations			
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC			
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU			
Acute Tox.	Acute toxicity			
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)			
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)			
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard			
ATE	Acute Toxicity Estimate			
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)			
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures			
DGR	Dangerous Goods Regulations (see IATA/DGR)			
DNEL	Derived No-Effect Level			
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval			
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)			
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)			
EINECS	European Inventory of Existing Commercial Chemical Substances			
ELINCS	European List of Notified Chemical Substances			

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Abbr.	Descriptions of used abbreviations		
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control		
Eye Dam.	Seriously damaging to the eye		
Eye Irrit.	Irritant to the eye		
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United  Nations		
IATA	International Air Transport Association		
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)		
IMDG	International Maritime Dangerous Goods Code		
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008		
IOELV	Indicative occupational exposure limit value		
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval		
NLP	No-Longer Polymer		
NOEC	No Observed Effect Concentration		
PBT	Persistent, Bioaccumulative and Toxic		
PNEC	Predicted No-Effect Concentration		
ppm	Parts per million		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)		
Skin Corr.	Corrosive to skin		
Skin Irrit.	Irritant to skin		
STEL	Short-term exposure limit		
STOT RE	Specific target organ toxicity - repeated exposure		
SVHC	Substance of Very High Concern		
TWA	Time-weighted average		
vPvB	Very Persistent and very Bioaccumulative		
WEL	Workplace exposure limit		

# Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. 2019 - ATP 12 2019/521.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

# **Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### Responsible for the safety data sheet

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#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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