

SAFETY DATA SHEET			
according to Regulation (EC) No 1907/2006 (REACH) as amended			
M - Wave Chain Guard			
Date of creation	12. January 2014	Revision no.	
Date of revision	06. March 2017	Version	1.1

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

- 1.1. Product identifier

Substance / mixture

Number

M - Wave Chain Guard

mixture

SF-670F-155F
- 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use of the mixture

Not recommended use of the mixture

White Chain Lubricant

The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet

Distributor

Name or trade name

Address

Phone

E-mail

Web address

Messingschlager GmbH

Hassbergstr. 45, Baunach, 96148

Germany

+49 9544/944445

sa@messingschlager.com

WWW.messingschlager.com

Manufacturer

Name or trade name

Address

Phone

Fax

E-mail

Web address

Competent person responsible for the safety data sheet

Name

E-mail
- 1.4. Emergency telephone number

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225

Asp. Tox. 1, H304

STOT SE 3, H336

Aquatic Chronic 2, H411

Full text of all classifications and H-phrases is given in the section 16.

The most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

The most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatic

Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatic

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331 Do NOT induce vomiting.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental information

EUH 066 Repeated exposure may cause skin dryness or cracking.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1272/2008.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Dispersion partially synthetic oil with white solid lubricants, thickeners, and anti-corrosion additives in a solvent.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
EC: 927-241-2 Registration number: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatic	30-<35	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412	
EC: 920-134-1 Registration number: 01-2119480153-44	Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatic	30-<35	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	

Full text of all classifications and H-phrases is given in the section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

Inhalation

Terminate the exposure immediately and move the affected person to fresh air (remove contaminated clothes). Protect the person against growing cold. Ensure medical treatment considering the frequent need of further observation for at least 24 hours.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment.

Eye contact

Immediately flush eyes with running water, open eyelids (even violently); if a victim has contact lenses, remove them immediately. Rinse for at least 10 minutes. Ensure medical, preferably professional treatment.

Ingestion

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Rinse mouth immediately and then drink plenty of water. Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

Inhalation

Possible irritation of airways, cough, headache.

Skin contact

Painful reddening, irritation.

Eye contact

Not expected.

Ingestion

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist

Unsuitable extinguishing media

water - full jet

5.2. Special hazards arising from the substance or mixture

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

The mixture is highly flammable. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all ignition sources; provide sufficient ventilation. Use personal protective equipment for work. Follow the instructions in Sections 7 and 8.


6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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- 6.3. Methods and material for containment and cleaning up**
Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.
- 6.4. Reference to other sections**
7, 8 and 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Electrostatic charge may be formed during use; use only earthed piping (tubing) when repumping. Use of antistatic clothes and footwear is recommended. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.
- 7.2. Conditions for safe storage, including any incompatibilities**
Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.
- | | |
|---------------------|---|
| Storage class | 3A - Flammable liquids (flash point below 55 °C) |
| Content | 50 ml + 1000 ml |
| Type of packaging | dropper |
| Material of package | PE-HD (2), Polyethylene - high-density, linear (Plastics) |
- 

PE-HD
- Storage temperature min 0 °C, max 30 °C
- The specific requirements or rules relating to the substance/mixture**
Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.
- 7.3. Specific end use(s)**
Chain lubricant. Observe instructions on the product label.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
none

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DNEL

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatic

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Consumers	Inhalation	900 mg/m³	Systemic acute effects	
Consumers	Dermal	300 mg/kg	Systemic acute effects	
Workers	Inhalation	1500 mg/m³	Systemic acute effects	
Workers	Dermal	300 mg/kg	Systemic acute effects	

Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatic

Workers / consumers	Route of exposure	Value	Effect	Determining the value of
Consumers	Inhalation	900 mg/m³	Systemic chronic effects	
Consumers	Dermal	300 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	1500 mg/m³	Systemic chronic effects	
Workers	Dermal	300 mg/kg bw/day	Systemic chronic effects	

8.2. Exposure controls

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams for skin protection, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures. Contaminated skin should be washed thoroughly.

Respiratory protection

Mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic substances are exceeded or in a poorly ventilated environment.

Thermal hazard

not available

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	liquid at 20°C
color	white
Odour	solvents
Odour threshold	data not available
pH	data not available
Melting point/freezing point	-30 °C
Initial boiling point and boiling range	110-190 °C
Flash point	>21 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	8 hPa

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Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	DIN kalíšek tryska 4
time of flow	26 s
Explosive properties	data not available
Oxidising properties	data not available
They are not available	

9.2. Other information

Density	0.8 g/cm ³ at 20 °C
ignition temperature	200 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatic

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 401	>5000 mg/kg		Rat	
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit	
	Log Pow		4-5.7			

Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatic

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 401	5000 mg/kg		Rat	
Dermal	LD ₅₀	OECD 402	>5000 mg/kg		Rabbit	

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Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		6000 mg/kg		Rabbit	

Skin corrosion/irritation
Based on available data the classification criteria are not met.

Serious eye damage/irritation
Based on available data the classification criteria are not met.

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

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

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

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

Toxicity for specific target organ - single exposure
May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
May be fatal if swallowed and enters airways.
They are not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity
Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatic

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀	OECD 203	>10-<30 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
ErC ₅₀	OECD 201	>1000 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC ₅₀	OECD 202	>22-<46 mg/l	48 hour	Daphnia (Daphnia magna)	
NOEC		>0.1-<1 mg/l		Fishes (Oncorhynchus mykiss)	
NOEC		>0.1-1 mg/l		Crustaceans	

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Hydrocarbons, C9-C11, isoalkanes, cyclics, <2% aromatic

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀	OECD 203	3.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
ErC ₅₀	OECD 201	>1000 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC ₅₀	OECD 202	>22-<46 mg/l	48 hour	Daphnia (Daphnia magna)	
NOEC		0.132 mg/l	28 day	Fishes (Oncorhynchus mykiss)	
NOEC		0.23 mg/l	21 day	Daphnia (Daphnia magna)	

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Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		20 mg/l	96 hour	Fishes	

They are not available

12.2. Persistence and degradability

The product is not biodegradable.

12.3. Bioaccumulative potential

Insignificant.

12.4. Mobility in soil

The product is insoluble in water. Contamination of water courses may occur in case of rain.

12.5. Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

12.6. Other adverse effects

Do not allow into drains or watercourses. Not penetrate the ground / soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to an authorised person for waste removal (specialized company) authorised for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

Legislation of waste

Council Directive 75/442/EEC on waste, as last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

Code of type of waste

07 01 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Code of type of waste packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

15 01 02 plastic packaging

SECTION 14: Transport information

14.1. UN number

UN 1993

14.2. UN proper shipping name

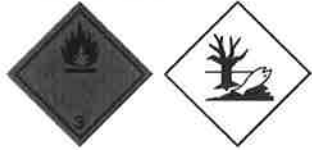
FLAMMABLE LIQUID, N.O.S.

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- 14.3. Transport hazard class(es)**
3 Flammable liquids
- 14.4. Packing group**
III - substances presenting low danger
- 14.5. Environmental hazards**
It is not expected that may cause long-term adverse effects in the environment.
- 14.6. Special precautions for user**
Reference in Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**
inapplicable

Additional information
Transport on vehicles that do not have separate cargo space from the driver's compartment. Make sure that the vehicle driver is aware of the potential hazards of the load and knows what to do in case of accident or danger.

The hazard identification number 33 (Kemler Code)
UN number 1993
Classification code F1
Safety signs 3+dangerous for the environment



- Road transport ADR**
Special provision 274, 601, 640D
Limited amount 1L
Packaging
Packaging instruction P001
Packing provisions MP7, MP17
Portable tanks and containers for open stored materials
Guidelines T11
Special provision TP1, TP27
Tanks ADR
Code of the tank L4BN
Vehicles for the transport in tanks FL
Transport category 3
Tunnel restriction code D/E
Special provision for operation
S2, S20
- Railway transport - RID**
Special provision 274
Packaging
Packaging instruction P001
Packing provisions MP7, MP17
Portable tanks and containers for open stored materials
Guidelines T11
Special provision TP1, TP27
Tanks RID
Code of the tank L4BN
Transport category 1

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Air transport - ICAO/IATA

Packaging instructions for limited amount	Forbidden
Packaging instructions passenger	351
Cargo packaging instructions	361

Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310
Marine pollution	Yes

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

Safety assessments for substances in this mixture were not carried out.

More information

Water hazard class: WGK 3 - highly water endangering

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331	Do NOT induce vomiting.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

A list of additional standard phrases used in the safety data sheet

EUH 066	Repeated exposure may cause skin dryness or cracking.
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Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union

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IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Publication of "Zásady pro poskytování první pomoci při expozici chemickým látkám" (doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.