



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended



Spolapon AS 124 AM BA

Creation date	29th May 2018	Version	4.0	13 rue Louis Blériot
Revision date	17th August 2021			77290 COMPANS

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

- 1.1. Product identifier**
- Substance / mixture: Spolapon AS 124 AM BA
 Number: mixture
 UFI: 110801
 Other mixture names: 4SUV-794U-300J-DRDA
 Sulfuric acid, mono-C12-14 (even numbered)-alkyl esters, ammonium salts; Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
- Mixture's intended use**
 Basic surfactant in the production of detergents and personal care products.
- Mixture uses advised against**
 The product should not be used in ways other than those referred in Section 1.
- Main intended use**
 PC-UNC Chemical products - uncategorised
- 1.3. Details of the supplier of the safety data sheet**
- Manufacturer**
- Name or trade name: Enaspol a. s.
 Address: Velvěty 79, Rtyně nad Bílinou, 415 01
 Czech Republic
 Identification number (CRN): 25006339
 VAT Reg No: CZ25006339
 Phone: +420 417 813 111
 E-mail: enaspol@enaspol.cz
 Web address: http://www.enaspol.cz
- Competent person responsible for the safety data sheet**
- Name: Táňa Polmová
 E-mail: polmova@enaspol.cz
- 1.4. Emergency telephone number**
- National Health Service (NHS) 111
 National poisoning information centre Scotland, NHS 24: 111
- Emergency telephone number abroad**
 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.

Skin Irrit. 2, H315
 Eye Dam. 1, H318
 Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes serious eye damage. Causes skin irritation. Harmful to aquatic life with long-lasting effects.



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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Ammonium C12-14 (even numbered) alkyl sulphates

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor.

Supplemental information

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 931-558-1 Registration number: 01-2119519217-42-0012	Ammonium C12-14 (even numbered) alkyl sulphates	24-27	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Irrit. 2, H319: 10 % ≤ C < 20 % Eye Dam. 1, H318: C ≥ 20 %	1
Index: 607-705-00-8 CAS: 65-85-0 EC: 200-618-2	benzoic acid	0,1	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 (lungs (inhalation))	

Notes

1 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. 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.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

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 if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

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

If inhaled

May cause respiratory irritation.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye damage.

If swallowed

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. 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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.



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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 the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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.

Storage class 12 - Other non-combustible liquids
Storage temperature min 5 °C, max 30 °C

7.3. Specific end use(s)

Basic surfactant in the production of detergents and personal care products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

DNEL

Ammonium C12-14 (even numbered) alkyl sulphates

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	285 mg/m ³	Systemic chronic effects	
Workers	Dermal	4060 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	85 mg/m ³	Systemic chronic effects	
Consumers	Dermal	2440 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	24 mg/kg bw/day	Systemic chronic effects	

PNEC

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Value	Determining method
Drinking water	0.102 mg/l	
Seawater	0.0102 mg/l	
Water (intermittent release)	0.036 mg/l	
Freshwater sediment	3.58 mg/kg of dry substance of sediment	
Sea sediments	0.358 mg/kg of dry substance of sediment	
Microorganisms in wastewater treatment plants	1.35 mg/l	
Soil (agricultural)	0.654 mg/kg of dry substance of soil	



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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. 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

tightly sealed protective goggles or protective shield (according to EN 166)

Skin protection

Use chemical-resistant, impervious protective gloves (according to EN 374-1):

permanent contact:

material – nitrile rubber

glove thickness – 0.11 mm

permeation time > 480 min

permeation class – 6

splash:

material – nitrile rubber

glove thickness – 0.11 mm

permeation time > 480 min

permeation class – 6

Gloves used must comply with the specifications set up in Directive 89/686/EEC and related norm EN 374-1.

Additional warning:

The data above are based on our own tests, literature data or they were analogically derived from similar substances. With regards to various conditions (eg. temperature) the actual durability life of gloves resistant to chemicals may be substantially shorter than the permeation time set up in the EN 374-1 standard. Observe recommendations of the particular manufacturer of the gloves when choosing appropriate thickness, material and permeability.

Respiratory protection

Respiratory protection is required if fumes/aerosols are formed or in case of inadequate ventilation.

Recommended type of filter:

Filter A (according to EN 14387 + A1) against organic gases and vapours of organic substances with boiling point > 65°C. Appropriate room ventilation is also essential.

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

Physical state	liquid
Colour	colourless, colourless to yellowish
Odour	Faint, product specific.
Melting point/freezing point	<5 °C
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>100 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	5,5-6,5 (3% solution at 20 °C)
Kinematic viscosity	data not available
Viscosity	0,2 Pa.s
Solubility in water	easily dissolvable in cold water
Partition coefficient n-octanol/water (log value)	log Pow 0,8 (22°C)
Vapour pressure	data not available
Density and/or relative density	
Density	1,03 g/cm ³ at 20 °C

9.2. Other information

Oxidising properties	The product has no oxidizing properties.
Explosive properties	The product does not have explosive properties.



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SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

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.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀		>2 ml/kg		Rat (Rattus norvegicus)		Expert opinion	Enaspol
Oral	LD ₅₀	OECD 401	1800 mg/kg bw		Rat (Rattus norvegicus)		Expert opinion	
Dermal	LD ₅₀	OECD 402	2000 mg/kg bw		Rat (Rattus norvegicus)		Expert opinion	

Skin corrosion/irritation

Causes skin irritation.

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Skin	Irritating	OECD 404		Rabbit	Expert opinion

Serious eye damage/irritation

Causes serious eye damage.

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Eye	Serious eye damage	OECD 405		Rabbit	Expert opinion

Sensitization

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
Skin	Not sensitizing	OECD 406		Guinea-pig		Expert opinion



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Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Mutagenicity

Ammonium C12-14 (even numbered) alkyl sulphates

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method
Negative	OECD 471			Bacteria (Salmonella typhimurium)		Expert opinion

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Ammonium C12-14 (even numbered) alkyl sulphates

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method
Negative	OECD 476			Mouse		Expert opinion

Carcinogenicity

Based on available data the classification criteria are not met.

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Parameter	Method	Value	Result	Species	Sex	Determining method
Oral		OECD 453		Not carcinogenic	Rat (Rattus norvegicus)		Expert opinion

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Determining method
Oral	NOAEL	OECD 408	488 mg/kg bw/day	Liver		Rat (Rattus norvegicus)		Expert opinion

Repeated dose toxicity

Ammonium C12-14 (even numbered) alkyl sulphates

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex	Determining method
Dermal	NOAEL		OECD 411	400 mg/kg bw/day		Mouse		Expert opinion

Aspiration hazard

Based on available data the classification criteria are not met.



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11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long-lasting effects.

Ammonium C12-14 (even numbered) alkyl sulphates

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC ₅₀		13 mg/l	48 hour	Poecilia reticulata		Expert opinion	Enaspol
EC ₅₀		13.5 mg/l	48 hour	Daphnia (Daphnia magna)		Expert opinion	Enaspol
LC ₅₀	OECD 203	3.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		Expert opinion	
EC ₅₀		4.7 mg/l	48 hour	Daphnia (Daphnia magna)		Expert opinion	
EC ₅₀	EU C.3 (87/302/EEC)	11 mg/l	72 hour	Algae (Scenedesmus subspicatus)		Expert opinion	

Chronic toxicity

Ammonium C12-14 (even numbered) alkyl sulphates

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method
NOEC		≥1.357 mg/l	42 day	Fishes (Pimephales promelas)		Expert opinion
NOEC	EU C.3 (87/302/EEC)	3 mg/l	72 hour	Algae (Desmodesmus subspicatus)		

12.2. Persistence and degradability

Biodegradability

Ammonium C12-14 (even numbered) alkyl sulphates

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301D	65.5 %			Expert opinion	Biodegradable	EMPLA T č. 8/2016
	OECD 301B					Easily biodegradable	

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended. The mixture is biodegradable.

12.3. Bioaccumulative potential

Insignificant.

12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in the event of rain.



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12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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 a person authorised for waste removal (a specialized company) that is entitled 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.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05 organic wastes containing hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

Harmful to aquatic life with long-lasting effects.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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 16th 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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

CSA has been carried out.



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SECTION 16: Other information

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H372	Causes damage to lungs (by inhalation) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P273	Avoid release to the environment.
P280	Wear eye 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.
P310	Immediately call a doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.

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 the 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
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
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



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UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated 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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 29 May 2018. Changes were made in sections 1, 2, 3, 15 and 16.

More information

Classification procedure - calculation method.

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.