

Star Vanilla

Creation date	13th April 2023	Version	1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**
Star Vanilla
Substance / mixture mixture
Number STA-5 540 050 001_EN
UFI 9S30-20VW-A00N-X36A
Other mixture names
Star Multi Vanilla
Star Vanilla
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Air freshener.
Main intended use
PC-AIR-4 Air care products for vehicles
Mixture uses advised against
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**
Manufacturer
Name or trade name JEES s.r.o.
Address Nádražní 745, Brandýs nad Labem, 25001
Czech Republic
Identification number (CRN) 48025569
VAT Reg No CZ48025569
Phone +420 326 903 815
E-mail jees@jees.cz
Web address www.powerair.eu
Competent person responsible for the safety data sheet
Name Tomáš Hrubý
E-mail tomas.hruby@jees.cz
- 1.4. Emergency telephone number**
European emergency number: 112

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. 3, H226
Skin Sens. 1B, H317
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**

Hazard pictogram**Signal word**

Warning



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Hazardous substances

d-Limonene
p-Anisyl acetate
Coumarin
pin-2(3)-en

Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container to in accordance with local regulations.

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
CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60-XXXX	Dipropylene glycol methyl ether	55-75		1
CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-0000	Ethanol	12-17	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C > 50 %	
CAS: 5989-27-5 EC: 227-813-5 Registration number: 01-2119529223-47-xxxx	d-Limonene	3-6	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	
CAS: 104-21-2 EC: 203-185-8 Registration number: 01-2120752374-54-xxxx	p-Anisyl acetate	1-2	Skin Sens. 1B, H317	
CAS: 121-33-5 EC: 204-465-2 Registration number: 01-2119516040-60-xxxx	Vanillin	1-2	Eye Irrit. 2, H319	



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 123-92-2 EC: 204-662-3 Registration number: 01-2119548408-32-0000	Isoamyl acetate	1-2	Flam. Liq. 3, H226	1
CAS: 142-19-8 EC: 205-527-1 Registration number: 01-2119488961-23-xxxx	Allyl heptanoate	1-2	Acute Tox. 3, H301+H311 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	
CAS: 123-68-2 EC: 204-642-4 Registration number: 01-2119983573-26-0000	Allyl hexanoate	1-2	Acute Tox. 4, H302 Acute Tox. 3, H311+H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	
CAS: 91-64-5 EC: 202-086-7 Registration number: 01-2119943756-26-0000	Coumarin	0,2-0,6	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-0000	2-propanol	0,2-0,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 606-117-00-0 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43-0000	Butanon	0,2-0,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1
CAS: 123-35-3 EC: 204-622-5 Registration number: 01-2119514321-56-xxxx	Myrcene	0,1-0,4	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	
CAS: 80-56-8 EC: 201-291-9 Registration number: 01-2119519223-49-xxxx	pin-2(3)-en	0,1-0,4	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
CAS: 105-13-5 EC: 203-273-6 Registration number: 01-2120740564-55-xxxx	Anise alcohol	0,02-0,05	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	

Notes

1 A substance for which exposure limits are set.

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. Rinse skin with water or shower.

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. Rinsing should continue at least for 10 minutes.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Not expected.

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. 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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. 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 formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

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. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
9 ml	blister	
27 ml	jar	

Storage class 3 - Flammable liquids

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
Dipropylene glycol methyl ether (CAS: 34590-94-8)	OEL 8 hours	308 mg/m ³	Skin
	OEL 8 hours	50 ppm	
Isoamyl acetate (CAS: 123-92-2)	OEL 8 hours	270 mg/m ³	
	OEL 8 hours	50 ppm	
	OEL 15 minutes	540 mg/m ³	
	OEL 15 minutes	100 ppm	
Butanon (CAS: 78-93-3)	OEL 8 hours	600 mg/m ³	
	OEL 8 hours	200 ppm	
	OEL 15 minutes	900 mg/m ³	
	OEL 15 minutes	300 ppm	

DNEL

2-propanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	500 mg/m ³	Chronic effects systemic		



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2-propanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	888 mg/kg	Chronic effects systemic		
Consumers	Inhalation	89 mg/m ³	Chronic effects systemic		
Consumers	Dermal	319 mg/kg	Chronic effects systemic		
Consumers	Oral	26 mg/kg	Chronic effects systemic		

Ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	950 mg/m ³	Chronic effects systemic		
Workers	Inhalation	1900 mg/m ³	Chronic effects local		
Workers	Dermal	343 mg/kg	Chronic effects systemic		
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	950 mg/m ³	Chronic effects local		
Consumers	Dermal	206 mg/kg	Chronic effects systemic		
Consumers	Oral	87 mg/kg	Chronic effects systemic		

PNEC

2-propanol

Route of exposure	Value	Value determination	Source
Freshwater environment	140.9 mg/l		
Marine water	140.9 mg/l		
Freshwater sediment	552 mg/kg		
Sea sediments	552 mg/kg		
Soil (agricultural)	28 mg/kg		

Ethanol

Route of exposure	Value	Value determination	Source
Freshwater environment	0.96 mg/l		
Marine water	0.79 mg/l		
Water (intermittent release)	2.75 mg/l		
Microorganisms in sewage treatment	580 mg/l		
Freshwater sediment	3.6 mg/kg		
Sea sediments	2.9 mg/kg		
Soil (agricultural)	0.63 mg/kg		
Food chain	0.38 mg/kg		

8.2. Exposure controls

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

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.



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Respiratory protection

Under regular circumstances it is not necessary.

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	yellow
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	29 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.



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Acute toxicity

Based on available data the classification criteria are not met.

2-propanol						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	>2000 mg/kg		Rat (<i>Rattus norvegicus</i>)		
Dermal	LD ₅₀	>2000 mg/kg		Rabbit		
Inhalation	LC ₅₀	>20 mg/kg	8 hours	Rat (<i>Rattus norvegicus</i>)		

Ethanol						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	>15800 mg/kg		Rat (<i>Rattus norvegicus</i>)		
Dermal	LD ₅₀	>15800 mg/kg				
Inhalation	LD ₅₀	>30000 mg/m ³		Rat (<i>Rattus norvegicus</i>)		

pin-2(3)-en						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Source
Oral	LD ₅₀	>2000 mg/kg				Hal Sp. z.o.o.
Dermal	LD ₅₀	>2000 mg/kg				Hal Sp. z.o.o.

Skin corrosion/irritation

Based on available data the classification criteria are not met.

2-propanol			
Route of exposure	Result	Exposure time	Species
	Not irritating, Does not cause burns		Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

2-propanol			
Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

2-propanol				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Guinea-pig (<i>Cavia aperea f. porcellus</i>)	



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Germ cell mutagenicity

Based on available data the classification criteria are not met.

2-propanol				
Result	Exposure time	Specific target organ	Species	Sex
Negative			Bacteria (Salmonella typhimurium)	

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

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.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

2-propanol					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	>100 mg/l	48 hours	Fish (Oncorhynchus mykiss)		
EC ₅₀	>100 mg/l	48 hours	Daphnia (Daphnia magna)		
IC ₅₀	>100 mg/l	72 hours	Algae (Selenastrum capricornutum)		

Ethanol					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC ₅₀	>11500 mg/l	24 hours	Daphnia (Daphnia magna)		
NOEC	>1580 mg/l	96 hours	Algae (Selenastrum capricornutum)		

pin-2(3)-en					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	0.1-1 mg/l	96 hours	Fish		Hal Sp. z.o.o.



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pin-2(3)-en					
Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	0.1-1 mg/l		Crustaceans		Hal Sp. z.o.o.
EC ₅₀	0.1-1 mg/l		Algae (Selenastrum capricornutum)		Hal Sp. z.o.o.

12.2. Persistence and degradability

not available

Biodegradability

2-propanol				
Parameter	Value	Exposure time	Environment	Result
	53 %	5 days	Activated sludge	Easily biodegradable

Ethanol				
Parameter	Value	Exposure time	Environment	Result
	88 %	28 days	Activated sludge	Easily biodegradable

12.3. Bioaccumulative potential

Not available.

2-propanol					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	≤4				

12.4. Mobility in soil

Not available.

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.

Packaging waste type code

15 01 01 paper and cardboard packaging
15 01 02 plastic packaging

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SECTION 14: Transport information**14.1. UN number or ID number**

UN 1266

14.2. UN proper shipping name

PERFUMERY PRODUCTS

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

14.5. Environmental hazards

not relevant

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

Additional information

Hazard identification No.

30

UN number

1266

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

Air transport - ICAO/IATA

Packaging instructions passenger

355

Cargo packaging instructions

366

Marine transport - IMDG

EmS (emergency plan)

F-E, S-D

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 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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



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H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful to aquatic life with long lasting effects.
H301+H311	Toxic if swallowed or in contact with skin.
H311+H331	Toxic in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P501	Dispose of contents/container to in accordance with local regulations.

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
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
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
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 Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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



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VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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.