

Safety Data Sheet

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

CLEANSING SOLUTION MAGNOLIA FRAGRANCE

Version number: GHS 2.0
Replaces version of: 2016-09-05 (GHS 1)

revision: 2018-06-01

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

1.1 Product identifier

Trade name

CLEANSING SOLUTION MAGNOLIA FRAGRANCE

Registration number (REACH)

not relevant (mixture)

Other means of identification

Item code

5275/F5275V2

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

Relevant identified uses

SU3 : industrial uses: uses of substances as such or in preparations at industrial sites
PC35 : washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet

LCM
23 RUE BARTHELEMY THIMONNIER ZINORD
87021 LIMOGES CEDEX 9

Telephone: 05.55.37.53.54
e-mail: stephanelcm@orange.fr

1.4 Emergency telephone number

Emergency information service

Austria : +431 406 43 43;
Belgium : +070 245 245 (7 /7 24/24);
Bulgaria : +359 2 9154 409;
Czech republic tel +420 224 919 293, +420 224 915 402;
Denmark : 82 12 12 12;
Estonia : tel nationally 16662, from abroad (+372) 626 93 90;
Finland : (09) 471 977 (direct) or (09) 4711 (exchange);
France : + 33 (0)1 45 42 59 59 (7/7 24/24);
Germany : 030/19240;
Hungary : +36 1 476 6464;
Ireland : 01 8092566 or 01 8379964;
Italie : 0659943733;
Lithuania : 370 5 236 20 52 ou 370 687 53 378;
Malta : 2545 0000;
Netherlands : 030-2748888;
New zealand : 0800 764 766 or 0800 611 116;
Norway : + 47 810 20 050;
Portugal : 808 250 143;
Romania : 021.318.36.06;
Slovakia : 421 2 5477 4166;
Spain : + 34 91 562 04 20;
Sweden : 112 ou 08-331231.
United kingdom : +44 7769893997
USA : 1-800-222-1222.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
2.6	flammable liquid	Cat. 2	(Flam. Liq. 2)	H225
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319

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Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

Signal word

Danger

Pictograms

GHS02, GHS07



Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

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.

Precautionary statements - storage

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statements - disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Notes
Ethyl alcohol	CAS No 64-17-5 EC No 200-578-6 REACH Reg. No 01-2119457610-43- xxxx	50 - < 75	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319		OEL








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Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms	Notes
Isopropyl alcohol	CAS No 67-63-0 EC No 200-661-7 REACH Reg. No 01-2119457558-25- xxxx	< 1	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 	IOELV OEL
2-Butanone	CAS No 78-93-3 EC No 201-159-0	< 1	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 	IOELV
1,7,7- Trimethylbicyclo[2.2.1]he ptan-2-one	CAS No 76-22-2 EC No 200-945-0	< 1	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 4 / H332 STOT SE 2 / H371	  	OEL

Notes

IOELV: Substance with a community indicative occupational exposure limit value
OEL: Substance with a national occupational exposure limit value
OEL: Substance with a national occupational exposure limit value

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

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 spray, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

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

5.3 Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

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.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

• Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

• Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA A [ppm]	TWA [mg/m ³]	STEL L [ppm]	STEL [mg/m ³]	Source	wt%
EU	ethyl methyl ketone	78-93-3	IOELV	200	600	300	900	2017/2398 /EU	< 1
GB	ethanol	64-17-5	WEL	1,000	1,920			EH40/200 5	50 - < 75

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Country	Name of agent	CAS No	Identifier	TWA A [ppm]	TWA [mg/m ³]	STEL L [ppm]	STEL [mg/m ³]	Source	wt%
GB	propan-2-ol	67-63-0	WEL	400	999	500	1,250	EH40/2005	< 1
GB	bornan-2-one	76-22-2	WEL	2	13	3	19	EH40/2005	< 1
GB	butan-2-one (methyl ethyl ketone)	78-93-3	WEL	200	600	300	899	EH40/2005	< 1

Notation

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/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethyl alcohol	64-17-5	DNEL	1,900 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Ethyl alcohol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Ethyl alcohol	64-17-5	DNEL	950 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	888 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Isopropyl alcohol	67-63-0	DNEL	500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Ethyl alcohol	64-17-5	PNEC	580 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	3.6 mg/kg	benthic organisms	sediments	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	0.96 mg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	0.79 mg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	580 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	3.6 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl alcohol	64-17-5	PNEC	2.75 mg/l	aquatic organisms	water	intermittent release

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Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environ-mental com-partment	Exposure time
Ethyl alcohol	64-17-5	PNEC	0.63 mg/kg	terrestrial organisms	soil	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	microorganisms	sewage treat-ment plant (STP)	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	benthic organisms	sediments	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	552 mg/kg	pelagic organisms	sediments	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	160 mg/kg	(top) predators	water	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	short-term (single in-stance)
Isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

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

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

Appearance

Physical state	liquid
Colour	yellow
Odour	characteristic

Other physical and chemical parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	78 °C at 1,013 hPa (Read across on ethanol)
Flash point	19 °C (Read across on ethanol)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	57.26 hPa at 19.6 °C (Read across on ethanol)
Density	0,87 - 0,88
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

• if heated

risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

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.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

oxidisers

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification procedure

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

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

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	oral	1,500 mg/kg
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	inhalation: dust/mist	1.5 mg/μ4h

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Source
Ethyl alcohol	64-17-5	oral	LD50	10,470 mg/kg	rat	European Chemicals Agency, http://echa.europa.eu/
Ethyl alcohol	64-17-5	inhalation: vapour	LC50	124.7 mg/μ4h	rat	European Chemicals Agency, http://echa.europa.eu/
Isopropyl alcohol	67-63-0	oral	LD50	5,840 mg/kg	rat	
Isopropyl alcohol	67-63-0	inhalation: vapour	LC50	>25 mg/μ4h	rat	
Isopropyl alcohol	67-63-0	dermal	LD50	13,900 mg/kg	rabbit	
2-Butanone	78-93-3	inhalation: vapour	LC50	34 mg/μ4h	unknown	
2-Butanone	78-93-3	oral	LD50	4,000 mg/kg	unknown	
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	inhalation: dust/mist	LC50	1.5 mg/μ4h	unknown	
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	76-22-2	oral	LD50	1,500 mg/kg	unknown	

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethyl alcohol	64-17-5	LC50	14.2 g/l	fish	96 h
Ethyl alcohol	64-17-5	EC50	12.9 g/l	fish	96 h
Isopropyl alcohol	67-63-0	LC50	10,000 mg/l	fish	96 h

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Ethyl alcohol	64-17-5	LC50	>0.08 mg/l	fish	42 d
Ethyl alcohol	64-17-5	EC50	22.6 g/l	algae	10 d
Ethyl alcohol	64-17-5	ErC50	675 mg/l	algae	4 d
Isopropyl alcohol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Ethyl alcohol	64-17-5	oxygen depletion	74 %	5 d
Isopropyl alcohol	67-63-0	oxygen depletion	53 %	5 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Ethyl alcohol	64-17-5		-0.35 (pH value: 7.4, 24 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Properties of waste which render it hazardous

not assigned

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	1170
14.2	UN proper shipping name	ETHANOL SOLUTION
14.3	Transport hazard class(es) Class	3 (flammable liquids)
14.4	Packing group	II (substance presenting medium danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

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

UN number	1170
Proper shipping name	ETHANOL SOLUTION
Class	3
Classification code	F1
Packing group	II
Danger label(s)	3



Special provisions (SP)	144, 601
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2

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Tunnel restriction code (TRC)	D/E
Hazard identification No	33
Emergency Action Code	2YE
• International Maritime Dangerous Goods Code (IMDG)	
UN number	1170
Proper shipping name	ETHANOL SOLUTION
Class	3
Packing group	II
Danger label(s)	3



Special provisions (SP)	144
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-D
Stowage category	A
• International Civil Aviation Organization (ICAO-IATA/DGR)	
UN number	1170
Proper shipping name	Ethanol solution
Class	3
Packing group	II
Danger label(s)	3



Special provisions (SP)	A3, A58, A180
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

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)

• Seveso Directive

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
P5c	flammable liquids (cat. 2, 3)	5,000	50,000	51)

Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		• relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		• relevant PNECs of components of the mixture: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/EU	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
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)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
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
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

Safety Data Sheet

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

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Abbr.	Descriptions of used abbreviations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
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 (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

- Supplier
- ECHA (echa.europa.eu/fr)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

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
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.

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Disclaimer

This document has been prepared in compliance with the Regulation (EU) 453/2010 of the Commission of 20 May 2010 and the classification has been carried out in compliance with the Regulation (EC) 1272/2008 of the Parliament and the Council of 16 December 2008, from available data on the substance (s) or the mixture concerned by this document at its release date.

Information mentioned in this document is intended to ensure, safety on handling, use, processing, storage, transport, and placing on the market of the substance or the mixture.

This information may not be valid, if the substance or the mixture concerned by this document is used for another usage than the one mentioned in section 1 of this document.

The recipient of this safety data sheet remains responsible for its transmission within the downstream supply chain.

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