

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SH 24234 OCEAN

Version 1.0

Revision Date 22 JUL 2024

Print Date 22 JUL 2024

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sales No. : AQ186751/00
SH 24234 OCEAN

Substance name : MULTI-COMPONENT MIXTURE

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company :
Givaudan Fragrances (Shanghai) Ltd.
PuDong Zhang Jiang High- Tech Park
298 Li Shi Zhen Road
201203 SHANGHAI

Telephone : +862128931288
Telefax : +862150271412
E-mail address : global.msds_fragrances_raps@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+861051003039

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R43: May cause sensitization by skin contact.
Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Givaudan[®]

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/
vapours/ spray.
P272 Contaminated work clothing should not be
allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and
water.
P313 Get medical advice/ attention.

Hazardous components which must be listed on the label:

- 2H-1-BENZOPYRAN-2-ONE 91-64-5

Labelling according to EC Directives (67/548/EEC, 1999/45/EC)

Hazard pictograms

:



Irritant

Dangerous
for the
environment

R-phrases(s)

: R43 May cause sensitization by skin contact.
R51/53 Toxic to aquatic organisms, may cause
long-term adverse effects in the aquatic
environment.

S-phrases(s)

: S24 Avoid contact with skin.
S37 Wear suitable gloves.
S57 Use appropriate container to avoid
environmental contamination.
S60 This material and its container must be
disposed of as hazardous waste.

Hazardous components which must be listed on the label:

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- 2H-1-BENZOPYRAN-2-ONE 91-64-5

2.3 Other hazards

no data available

3. Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
4-tert-butylcyclohexyl acetate	32210-23-4 250-954-9	N; R51/53	Aquatic Chronic 2; H411	>= 5 - < 10
3,7-DIMETHYL-1,6-OCTADIEN-3-OL	78-70-6 201-134-4	Xi; R38	Skin Irrit. 2; H315	>= 5 - < 10
1,7,7-TRIMETHYL-BICYCLO[2.2.1]HEPTA N-2-ONE	76-22-2 200-945-0	Xn; R20-R68/22 F; R11	Flam. Sol. 2; H228 Acute Tox. 4; H332 STOT SE 2; H371	>= 5 - < 10
low boiling point hydrogen treated naphtha	64742-48-9 265-150-3	Xn; R65	Asp. Tox. 1; H304	>= 5 - < 10
PENTYL 2-HYDROXYBENZOATE	2050-08-0 218-080-2	N; R51/53	Aquatic Chronic 2; H411	>= 2,5 - < 5
2,6,6,8-TETRAMETHYL-9-ACETYL-TRICYCLO{5.3.1.0(1,5)} UNDEC-8-ENE	32388-55-9 251-020-3	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 5
2H-1-BENZOPYRAN-2-ONE	91-64-5 202-086-7	Xn; R22 Xi; R43	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 2; H373	>= 1 - < 5
3-Methylbutyl salicylate	87-20-7 201-730-4	N; R51/53	Aquatic Chronic 2; H411	>= 1 - < 2,5

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2,6-bis(1,1-dimethylethyl)-4-methylphenol	128-37-0 204-881-4	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9 481-920-3	N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene	7785-70-8 201-291-9	N; R50/53 Xn; R65 R10 Xi; R43	Flam. Liq. 3; H226 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5	R10 Xi; R38 R43 N; R50-R53	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one	14901-07-6 238-969-9	N; R51/53	Aquatic Chronic 2; H411	>= 0,1 - < 1
2,2-DIMETHYL-3-METHYLENEBICYCLO[2.2.1]HEPTANE	79-92-5 201-234-8	N; R50/53 R10 Xi; R36	Flam. Sol. 2; H228 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
turpentine, oil	8006-64-2 232-350-7	N; R51/53 Xn; R65- R20/21/22 R10 Xi; R43-R36/38	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Asp. Tox. 1; H304 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,1 - < 1

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1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE)	188199-50-0 443-460-1	N; R50/53 Xi; R41-R38	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,1 - < 0,25$
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	68039-49-6 268-264-1	R52/53 Xi; R36/38-R43	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Eye Irrit. 2; H319	$\geq 0,1 - < 1$

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Hydrocarbons : 8 %

4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

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Treatment : no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

not applicable

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Temperature class : no data available

Fire-fighting class : no data available

Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : no data available

Advice on common storage : no data available

German storage class : no data available

Other data : No decomposition if stored and applied as directed.

7.3 Specific end uses

Specific use(s) : no data available

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

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Personal protective equipment

- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Wash hands before breaks and at the end of workday.

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Form : liquid
- Colour : Pale yellow, yellow
- Taste : not determined
- Odour : Agrestic, Fern-like
- Odour Threshold : not applicable
- Flash point : 73 °C Method: Grabner miniflash closed cup
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability (solid, gas) : not applicable
- Oxidizing properties : no data available
- Autoignition temperature : not determined
- Decomposition temperature : no data available
- pH : not determined
- Melting point : not determined
- Boiling point : not determined
- Vapour pressure : 0,5662 hPa at 20 °C Calculated (99,6 %)
- Density : 943,97 kg/m³ at 20 °C
- Bulk density : not applicable
- Water solubility : not determined
- Solubility/qualitative : practically insoluble

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Partition coefficient: n-octanol/water : not applicable
Viscosity, kinematic : no data available
Relative vapour density : no data available
Evaporation rate : no data available
Explosive properties : no data available

10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available
Thermal decomposition : no data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

: Acute toxicity estimate
Dose: 24 862 mg/kg
Method: Calculation method

Acute oral toxicity

4-tert-butylcyclohexyl acetate : LD50: 5 000 mg/kg Species: rat

LD50: > 5 000 mg/kg Species: rat

3,7-DIMETHYL-1,6-OCTADIEN-3-OL : LD50: 2 790 mg/kg Species: rat

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1,7,7-TRIMETHYL-BICYCLO[2.2.1]HEPTAN-2-ONE	: LD50: > 5 000 mg/kg	Species: rat
	LD50: 1 310 mg/kg	Species: mouse
2,6,6,8-TETRAMETHYL-9-ACETYL-TRICYCLO{5.3.1.0(1,5)} UNDEC-8-ENE	: LD50: > 5 000 mg/kg	Species: rat
2H-1-BENZOPYRAN-2-ONE	: LD50: 293 mg/kg	Species: rat
	LD50: 196 mg/kg	Species: mouse
	LD50: 202 mg/kg	Species: guinea pig
3-Methylbutyl salicylate	: LD50: 3 300 mg/kg	Species: rat
	LD50: 2 480 mg/kg	Species: guinea pig
2,6-bis(1,1-dimethylethyl)-4-methylphenol	: LD50: 2 000 mg/kg	Species: mouse
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	: LD50: 2 000 mg/kg	Species: rat
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene	: LD50: 3 700 mg/kg	Species: rat
(R)-p-mentha-1,8-diene	: LD50: 4 400 mg/kg	Species: rat
	LD50: 5 600 mg/kg	Species: mouse
4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one	: LD50: 4 590 mg/kg	Species: rat
2,2-DIMETHYL-3-METHYLENEBICYCLO[2.2.1]HEPTANE	: LD50: > 5 000 mg/kg	Species: rat
turpentine, oil	: LD50: > 2 000 mg/kg	Species: rat

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1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE)	: LD50: 2 000 mg/kg	Species: rat
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	: LD50: > 3 100 mg/kg	Species: rat
Acute inhalation toxicity	: Acute toxicity estimate Dose: 185 mg/l Method: Calculation method	
Acute dermal toxicity	: No data is available on the product itself.	
Acute dermal toxicity		
4-tert-butylcyclohexyl acetate	: LD50: > 5 000 mg/kg	Species: rabbit
3,7-DIMETHYL-1,6-OCTADIEN-3-OL	: LD50: 5 000 mg/kg	Species: rabbit
1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE	: LD50: > 2 500 mg/kg	Species: rabbit
2,6,6,8-TETRAMETHYL-9-ACETYL-TRICYCLO{5.3.1.0(1,5)} UNDEC-8-ENE	: LD50: > 2 000 mg/kg	Species: rabbit
2,6-bis(1,1-dimethylethyl)-4-methylphenol	: LD50: > 5 000 mg/kg	Species: rabbit
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	: LD50: 5 000 mg/kg	Species: rabbit
(R)-p-mentha-1,8-diene	: LD50: > 5 000 mg/kg	Species: rabbit
2,2-DIMETHYL-3-METHYLENEBICYCLO[2.2.1]HEPTANE	: LD50: > 2 500 mg/kg	Species: rabbit
turpentine, oil	: LD50: > 2 000 mg/kg	Species: rabbit

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1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE) : LD50: 2 000 mg/kg Species: rabbit

LD50: 2 000 mg/kg Species: rat

2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE : LD50: 5 000 mg/kg Species: rabbit

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Reproductive toxicity : No data is available on the product itself.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Aspiration hazard

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Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates. : no data available

Toxicity to algae : no data available

M-Factor

2,6,6,8-TETRAMETHYL-9- : 1

ACETYL-TRICYCLO{
5.3.1.0(1,5)} UNDEC-8-ENE

M-Factor

2,6-bis(1,1-dimethylethyl)-4- : 1

methylphenol

M-Factor

1,3,4,6,7,8-hexahydro- : 1

4,6,6,7,8,8-

hexamethylindeno[5,6-

c]pyran

M-Factor

2,6,6-trimethyl- : 1

Bicyclo[3.1.1]hept-2-ene

M-Factor

(R)-p-mentha-1,8-diene : 1

M-Factor

2,2-DIMETHYL-3- : 1

METHYLENEBICYCLO[2.2.1

]HEPTANE

M-Factor

1,7,7- : 1

TRIMETHYLBICYCLO(2.2.1)

HEPTANE-2-SPIRO-4'-(2'-

ISOPROPYL-1',3'-DIOXANE)

Toxicity to bacteria : no data available

Toxicity to fish (Chronic toxicity) : no data available

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity) : no data available

(Chronic toxicity)

Acute aquatic toxicity : no data available

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Chronic aquatic toxicity : no data available
Toxicity Data on Soil : no data available
Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available
Distribution among environmental compartments : no data available
Additional advice : no data available
Environmental fate and pathways
Physico-chemical removability : no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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Dispose of in accordance with local regulations.

14. Transport information

ADR/RID/ADN

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Tetramethyl-acetyl-tricycloundecene)
Transport hazard class(es) : 9
Packing group : III
Hazard identification No : 90
Labels : 9
Tunnel restriction code : (E)
Environmentally hazardous : yes

IATA/ICAO

UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Tetramethyl-acetyl-tricycloundecene)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

Packing instruction (CAO) : 964
Packing instruction (PAX) : 964
Packing instruction (Ltd. Qty.) : Y964

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Tetramethyl-acetyl-tricycloundecene)
Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F

Marine pollutant : yes
Tetramethyl-acetyl-tricycloundecene

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15. Regulatory information

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

Water contaminating class :
(Germany)

15.2 Chemical Safety Assessment

no data available

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R68/22	Harmful: possible risk of irreversible effects if swallowed.

Full text of H-Statements referred to under sections 2 and 3.

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H226	Flammable liquid and vapour.
H228	Flammable solid
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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