Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Euro DeLuxe Clear 2.1

Version number: GHS 1.0 Date of compilation: 2022-02-18

SECTION 1: Identification

1.1 Product identifier

Trade name	**Euro DeLuxe Clear 2.1**
Alternative name(s)	ZFR-005
Product code(s)	ZFR-005, ZFR-005

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

Relevant identified uses	General use

1.3 Details of the supplier of the safety data sheet

P.O.R. Products
38 Portman Road
New Rochelle NY 10801
United States

Telephone: +1 914-636-0700
e-mail: support@porproducts.com
Website: www.porproducts.com

e-mail (competent person)	support@porproducts.com

1.4 Emergency telephone number

Emergency information service	1-800-255-3924 ChemTel Inc.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	2	Flam. Liq. 2	H225
3.4S	skin sensitization	1	Skin Sens. 1	H317
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word danger
- Pictograms

GHS02, GHS07, GHS08 

- Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling 4-chloro-α,α,α-trifluorotoluene, ethyl benzene

2.3 Other hazards

of no significance

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 GHS
4-chloro-α,α,α-trifluorotoluene	CAS No 98-56-6	25 – < 50	Flam. Liq. 3 / H226 Skin Sens. 1B / H317
Acrylic resin component		25 – < 50	
acetone	CAS No 67-64-1	5 – < 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336
butyl acetate	CAS No 123-86-4	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336

Name of substance	Identifier	Wt%	Classification acc. to GHS
xylene	CAS No 1330-20-7	5 – < 10	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304
polyester diol		1 – < 5	
methyl amyl ketone	CAS No 110-43-0	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Acute Tox. 4 / H332
ethyl benzene	CAS No 100-41-4	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 STOT RE 2 / H373 Asp. Tox. 1 / H304
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	CAS No 25973-55-1	0.1 – < 1	Acute Tox. 4 / H312 Acute Tox. 2 / H330

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

SECTION 5: Fire-fighting 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 vapor-air mixture. Solvent vapors 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

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate 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 vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice 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.

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.

- Specific notes/details

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. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors 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 feedingstuffs.

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.

- Ventilation requirements

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

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) 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

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	ethylbenzene	100-41-4	OEL (AB)	100	434	125	543				OHS Code
CA	ethylbenzene	100-41-4	OEL (BC)	20							"BC Regulation"

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	ethylbenzene	100-41-4	OEL (ONMoL)	20							MoL
CA	ethylbenzene	100-41-4	PEV/VEA	100	434	125	543				Regulation OHS
CA	2-heptanone (methyl n-amyl ketone)	110-43-0	OEL (AB)	50	233						OHS Code
CA	methyl n-amyl ketone	110-43-0	OEL (BC)	50							"BC Regulation"
CA	methyl n-amyl ketone	110-43-0	OEL (ON)	25	115						Regulation 833
CA	methyl n-amyl ketone	110-43-0	OEL (ONMoL)	25	115						MoL
CA	methyl n-amyl ketone	110-43-0	PEV/VEA	50	233						Regulation OHS
CA	xylene	1330-20-7	OEL (AB)	100	434	150	651				OHS Code
CA	xylene	1330-20-7	OEL (BC)	100		150					"BC Regulation"
CA	xylene	1330-20-7	OEL (ONMoL)	100		150					MoL
CA	xylene	1330-20-7	PEV/VEA	100	434	150	651				Regulation OHS
CA	acetone	67-64-1	OEL (AB)	500	1,200	750	1,800				OHS Code
CA	acetone	67-64-1	OEL (BC)	250		500					"BC Regulation"
CA	acetone	67-64-1	OEL (ONMoL)	500		750					MoL
CA	acetone	67-64-1	PEV/VEA	500	1,190	1,000	2,380				Regulation OHS

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
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 of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
4-chloro-α,α,α-trifluorotoluene	98-56-6	DNEL	1.025 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
4-chloro-α,α,α-trifluorotoluene	98-56-6	DNEL	0.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
4-chloro-α,α,α-trifluorotoluene	98-56-6	DNEL	17.6 µg/cm²	human, dermal	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	1,210 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	2,420 mg/m³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
methyl amyl ketone	110-43-0	DNEL	394.3 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
methyl amyl ketone	110-43-0	DNEL	1,516 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
methyl amyl ketone	110-43-0	DNEL	54.27 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	77 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	293 mg/m³	human, inhalatory	worker (industry)	acute - local effects
ethyl benzene	100-41-4	DNEL	180 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	DNEL	0.7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	DNEL	0.3 mg/kg bw/day	human, dermal	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
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	2 µg/l	aquatic organisms	freshwater	short-term (single instance)
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	0.2 µg/l	aquatic organisms	marine water	short-term (single instance)
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	0.032 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	0.022 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-chloro-α,α,α-trifluorotoluene	98-56-6	PNEC	0.026 mg/kg	terrestrial organisms	soil	short-term (single instance)
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
methyl amyl ketone	110-43-0	PNEC	0.098 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl amyl ketone	110-43-0	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methyl amyl ketone	110-43-0	PNEC	12.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl amyl ketone	110-43-0	PNEC	1.89 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
methyl amyl ketone	110-43-0	PNEC	0.189 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl amyl ketone	110-43-0	PNEC	0.321 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl benzene	100-41-4	PNEC	9.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl benzene	100-41-4	PNEC	13.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl benzene	100-41-4	PNEC	1.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl benzene	100-41-4	PNEC	2.68 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	0.01 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	451 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	45.1 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	PNEC	90 mg/kg	terrestrial organisms	soil	short-term (single instance)

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	56.05 °C
Flash point	-17 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	1.1 vol%
- Upper explosion limit (UEL)	7 vol%

Vapor pressure	240 hPa at 20 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available

Auto-ignition temperature	358 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	not explosive (GHS of the United Nations, annex 4)
Oxidizing properties	none

9.2 Other information

Solvent content	60.62 %
Solid content	39.64 %

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.

10.5 Incompatible materials

Oxidizers

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
xylene	1330-20-7	dermal	1,100 $^{mg}/_{kg}$
xylene	1330-20-7	inhalation: vapour	11 $^{mg}/_{l}$/4h
methyl amyl ketone	110-43-0	oral	1,600 $^{mg}/_{kg}$
methyl amyl ketone	110-43-0	inhalation: vapour	>16.7 $^{mg}/_{l}$/4h
ethyl benzene	100-41-4	inhalation: vapour	11 $^{mg}/_{l}$/4h
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	dermal	>1,100 $^{mg}/_{kg}$
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	inhalation: dust/mist	>0.4 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
4-chloro-α,α,α-trifluoro-toluene	98-56-6	LC50	6.5 $^{mg}/_{l}$	fish	24 h
4-chloro-α,α,α-trifluoro-toluene	98-56-6	ErC50	>0.41 $^{mg}/_{l}$	algae	72 h
4-chloro-α,α,α-trifluoro-toluene	98-56-6	EC50	>0.41 $^{mg}/_{l}$	algae	72 h
acetone	67-64-1	LC50	8,120 $^{mg}/_{l}$	fish	96 h
butyl acetate	123-86-4	LC50	18 $^{mg}/_{l}$	fish	96 h
butyl acetate	123-86-4	EC50	18 $^{mg}/_{l}$	fish	96 h
butyl acetate	123-86-4	ErC50	335 $^{mg}/_{l}$	algae	24 h
xylene	1330-20-7	LC50	8.4 $^{mg}/_{l}$	fish	96 h
xylene	1330-20-7	EC50	4.9 $^{mg}/_{l}$	algae	72 h
xylene	1330-20-7	ErC50	4.7 $^{mg}/_{l}$	algae	72 h
methyl amyl ketone	110-43-0	LC50	131 $^{mg}/_{l}$	fish	96 h
methyl amyl ketone	110-43-0	EC50	>90.1 $^{mg}/_{l}$	aquatic invertebrates	48 h
methyl amyl ketone	110-43-0	ErC50	98.2 $^{mg}/_{l}$	algae	72 h
ethyl benzene	100-41-4	LC50	7 $^{mg}/_{l}$	fish	24 h
ethyl benzene	100-41-4	EC50	2.4 $^{mg}/_{l}$	aquatic invertebrates	48 h
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1	LC50	>100 $^{mg}/_{l}$	fish	24 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

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/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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

UN RTDG	UN 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993

14.2 UN proper shipping name

UN RTDG	FLAMMABLE LIQUID, N.O.S.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	acetone, ethyl benzene

14.3 Transport hazard class(es)

UN RTDG	3

IMDG-Code	3
ICAO-TI	3

14.4 Packing group

UN RTDG	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment) 4-chloro-α,α,α-trifluorotoluene

14.6 Special precautions for user

There is no additional information.

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 information - National regulations - Additional information (UN RTDG)

UN number	1993
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	II
Danger label(s)	3, fish and tree

Special provisions (SP)	274 (UN RTDG)
Excepted quantities (EQ)	E2 (UN RTDG)
Limited quantities (LQ)	1 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (4-chloro-α,α,α-trifluorotoluene)
Danger label(s)	3, fish and tree

Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-E
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	3

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	**CAS No**	**Remarks**	**Effective date**
ethyl benzene	100-41-4		1986-12-31
xylene	1330-20-7		1986-12-31

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
acetone	67-64-1		4	5000 (2270)
ethyl benzene	100-41-4		1 2 3	1000 (454)
xylene	1330-20-7		1 3 4	100 (45,4)

Legend

1	"1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
2	"2" indicates that the source is section 307(a) of the Clean Water Act
3	"3" indicates that the source is section 112 of the Clean Air Act
4	"4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
4-chloro-α,α,α-trifluorotoluene	98-56-6		Prop 65
acetone	67-64-1		ATSDR Neurotoxicants
xylene	1330-20-7		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(d) IRIS Neurotoxicants OEHHA RELs
ethyl benzene	100-41-4		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) CWA 303(d) IARC Carcinogens - 2B OEHHA RELs Prop 65
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol [UV-328]	25973-55-1		EC PBTs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
acetone	67-64-1				1.0 %
ethyl benzene	100-41-4				0.1 %
xylene	1330-20-7				1.0 %
butyl acetate	123-86-4		LHS		1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
acetone	67-64-1	A, N, O	
ethyl benzene	100-41-4	A, O	
methyl amyl ketone	110-43-0	A, N, O	
xylene	1330-20-7	A, N, O	
butyl acetate	123-86-4	A, O	

Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH

N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer

Legend
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
acetone	67-64-1		F3
ethyl benzene	100-41-4		CA F3
methyl amyl ketone	110-43-0		F2
xylene	1330-20-7		F3
butyl acetate	123-86-4		F3

Legend
CA Carcinogenic
F2 Flammable - Second Degree
F3 Flammable - Third Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
2-PROPANONE	67-64-1	E
BENZENE, ETHYL-	100-41-4	E
2-HEPTANONE	110-43-0	
BENZENE, DIMETHYL-	1330-20-7	E
ACETIC ACID, BUTYL ESTER	123-86-4	E

Legend
E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
acetone	67-64-1	T, F
ethyl benzene	100-41-4	T, F
methyl amyl ketone	110-43-0	T
xylene	1330-20-7	T, F
butyl acetate	123-86-4	T, F

Legend
F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethylbenzene	100-41-4		cancer
p-chloro-α,α,α-trifluorotoluene (para-Chlorobenzotrifluoride, PCBTF)	98-56-6		cancer

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Key literature references and sources for data

Hazardous Products Regulations (HPR).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.