

STRATOS R4



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : STRATOS R4  
SDS n°29f

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

1.3. Details of the supplier of the safety data sheet

Registered company name : SOPREMA .  
Address : 14, Rue de Saint-Nazaire.67025.STRASBOURG.FRANCE.  
Telephone : 03 88 79 84 00. Fax : 03 88 79 84 01.  
sds@soprema.fr  
www.soprema.com

1.4. Emergency telephone number : +44 (0)1 235 239 670.

Association/Organisation : CARECHEM 24 .

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).  
Respiratory sensitisation, Category 1 (Resp. Sens. 1, H334).  
Skin sensitisation, Category 1 (Skin Sens. 1, H317).  
Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).  
Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS08



GHS09

Signal Word :  
DANGER

Product identifiers :

EC 261-879-6	BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE
EC 202-710-8	BENZOYL CHLORIDE
615-012-00-7	4-ISOCYANATOSULPHONYLTOLUENE
EC 247-722-4	M-TOLYLIDENE DIISOCYANATE
EC 209-544-5	4-METHYL-M-PHENYLENE DIISOCYANATE

Hazard statements :

H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements - Disposal :

P501

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

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 38640-62-9 EC: 254-052-6  BIS(ISOPROPYL)NAPHTHALENE	GHS09, GHS08 Dgr Asp. Tox. 1, H304 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		25 <= x % < 50
CAS: 59719-67-4 EC: 261-879-6 REACH: 01-2119983487-19-xxxx  BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE	GHS07, GHS09 Wng Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		2.5 <= x % < 10
CAS: 98-88-4 EC: 202-710-8 REACH: 01-2119487138-29-xxxx  BENZOYL CHLORIDE	GHS07, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 4, H332		0.1 <= x % < 1
INDEX: 615-012-00-7 CAS: 4083-64-1 EC: 223-810-8 REACH: 01-2119980050-47-xxxx  4-ISOCYANATOSULPHONYLTOLUENE	GHS08, GHS07 Dgr Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 EUH:014		0.1 <= x % < 1
CAS: 26471-62-5 EC: 247-722-4 REACH: 01-2119454791-34-xxxx  M-TOLYLIDENE DIISOCYANATE	GHS06, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Aquatic Chronic 3, H412	[1] [2]	0.1 <= x % < 1
CAS: 584-84-9 EC: 209-544-5 REACH: 01-2119486974-18-xxxx  4-METHYL-M-PHENYLENE DIISOCYANATE	GHS06, GHS08 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 2, H330 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Aquatic Chronic 3, H412	[1] [2]	0.1 <= x % < 1

(Full text of H-phrases: see section 16)

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**Information on ingredients :**

- [1] Substance for which maximum workplace exposure limits are available.
- [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.  
If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.  
In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.  
Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
In the event of an allergic reaction, seek medical attention.  
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.  
Keep the person exposed at rest. Do not force vomiting.  
Seek medical attention immediately, showing the label.  
If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Flammable.  
Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**5.1. Extinguishing media**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- carbon dioxide (CO2)
- powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.  
Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- hydrogen chloride (HCl)

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### 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

### 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of asthma, allergies and/or chronic or periodical breathing difficulties should not, under any circumstances, use these mixtures.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

#### Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged : always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically non-conductive.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Packages which have been opened must be reclosed carefully and stored in an upright position.

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**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
26471-62-5	0.02 mg/m3	0.07 mg/m3	-	-	-
584-84-9	0.02 mg/m3	0.07 mg/m3	-	-	-

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

4-METHYL-M-PHENYLENE DIISOCYANATE (CAS: 584-84-9)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Short term systemic effects.  
0.14 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
0.14 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
0.035 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
0.035 mg of substance/m3

M-TOLYLIDENE DIISOCYANATE (CAS: 26471-62-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Short term systemic effects.  
0.14 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
0.14 mg of substance/m3

Exposure method:  
Potential health effects:

Inhalation.  
Long term systemic effects.

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DNEL : 0.035 mg of substance/m3

Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 0.035 mg of substance/m3

BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE (CAS: 59719-67-4)

**Final use:** **Workers.**  
Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 29.4 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Inhalation.  
Potential health effects: Long term systemic effects.  
DNEL : 6.25 mg of substance/m3

**Predicted no effect concentration (PNEC):**

4-METHYL-M-PHENYLENE DIISOCYANATE (CAS: 584-84-9)

Environmental compartment: Fresh water.  
PNEC : 0.013

Environmental compartment: Sea water.  
PNEC : 0.00125

M-TOLYLIDENE DIISOCYANATE (CAS: 26471-62-5)

Environmental compartment: Soil.  
PNEC : 1

Environmental compartment: Fresh water.  
PNEC : 12.5 µg/l

Environmental compartment: Sea water.  
PNEC : 1.25 µg/l

Environmental compartment: Intermittent waste water.  
PNEC : 125 µg/l

Environmental compartment: Waste water treatment plant.  
PNEC : 1 mg/l

BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE (CAS: 59719-67-4)

Environmental compartment: Soil.  
PNEC : 1.131 mg/kg

Environmental compartment: Fresh water.  
PNEC : 0.0186 mg/l

Environmental compartment: Sea water.  
PNEC : 0.00186 mg/l

Environmental compartment: Fresh water sediment.  
PNEC : 0.709 mg/kg

Environmental compartment: Marine sediment.  
PNEC : 0.0709 mg/kg

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

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Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties :

- Impervious gloves in accordance with standard EN374

### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

### - Respiratory protection

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- AX (Brown)

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### General information :

Physical state : Viscous liquid.

#### Important health, safety and environmental information

pH :	Not relevant.
Boiling point/boiling range :	Not relevant.
Flash Point :	40.00 °C.
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).
Density :	1.02
Water solubility :	Insoluble.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

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**9.2. Other information**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- hydrogen chloride (HCl)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

May cause hypersensitivity of the respiratory tracts with effects taking the form of asthma, rhinitis/conjunctivitis or alveolitis.

May cause an allergic reaction by skin contact.

**11.1.1. Substances**

**Acute toxicity :**

4-METHYL-M-PHENYLENE DIISOCYANATE (CAS: 584-84-9)

Oral route : LD<sub>50</sub> = 5110 mg/kg  
Species : Rat

Dermal route : LD<sub>50</sub> > 9400 mg/kg  
Species : Rabbit

Inhalation route (n/a) : LC<sub>50</sub> = 0.47 mg/l  
Species : Rat  
Duration of exposure : 1 h

M-TOLYLIDENE DIISOCYANATE (CAS: 26471-62-5)

Oral route : LD<sub>50</sub> = 4130 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD<sub>50</sub> > 9400 mg/kg



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Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) :

LC50 = 0.48 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)  
Duration of exposure : 1 h

BENZOYL CHLORIDE (CAS: 98-88-4)

Oral route :

LD50 = 1900  
Species : Rat

Species : Rabbit

Inhalation route (n/a) :

LC50 1.45

BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE (CAS: 59719-67-4)

Oral route :

LD50 > 5000 mg/kg  
Species : Rat

Dermal route :

LD50 > 2000 mg/kg  
Species : Rabbit

BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

Oral route :

LD50 > 4000 mg/kg  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 > 4000 mg/kg  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a) :

LC50 > 5.6 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)  
Duration of exposure : 4 h

**Skin corrosion/skin irritation :**

BENZOYL CHLORIDE (CAS: 98-88-4)

Species : Rabbit

**Carcinogenicity :**

BENZOYL CHLORIDE (CAS: 98-88-4)

Carcinogenicity Test :

Negative.  
No carcinogenic effect.

**11.1.2. Mixture**

**Respiratory or skin sensitisation :**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 98-88-4 : IARC Group 2A : The agent is probably carcinogenic to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

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**12.1. Toxicity**

**12.1.1. Substances**

4-METHYL-M-PHENYLENE DIISOCYANATE (CAS: 584-84-9)

Crustacean toxicity : EC50 = 12.5 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 4300 mg/l  
Duration of exposure : 72 h

BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

Fish toxicity :  
NOEC = 0.5 mg/l  
Duration of exposure : 96 h

Crustacean toxicity : EC0 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

NOEC = 0.013 mg/l  
Factor M = 1  
Species : Daphnia magna  
Duration of exposure : 21 days

Algae toxicity : EC0 mg/l  
Duration of exposure : 72 h

M-TOLYLIDENE DIISOCYANATE (CAS: 26471-62-5)

Fish toxicity : LC50 = 133 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 12.5 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 = 3230 mg/l  
Species : Skeletonema costatum  
Duration of exposure : 96 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

BENZOYL CHLORIDE (CAS: 98-88-4)

Fish toxicity : LC50 = 34.7 mg/l  
Species : Pimephales promelas  
Duration of exposure : 96 h

Algae toxicity : ECr50 = 45 mg/l  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

4-METHYL-M-PHENYLENE DIISOCYANATE (CAS: 584-84-9)

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Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

M-TOLYLIDENE DIISOCYANATE (CAS: 26471-62-5)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

BENZOYL CHLORIDE (CAS: 98-88-4)

Biodegradability : Rapidly degradable.

BIS[2-[2-(1-METHYLETHYL)-3-OXAZOLIDINYL]ETHYL] HEXAN-1,2-DIYLBISCARBAMATE (CAS: 59719-67-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

### 12.3. Bioaccumulative potential

#### 12.3.1. Substances

BENZOYL CHLORIDE (CAS: 98-88-4)

Octanol/water partition coefficient : log K<sub>ow</sub> = 2.2

BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

Octanol/water partition coefficient : log K<sub>ow</sub> >= 4.

Bioaccumulation : BCF >= 500.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

### German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely hazardous for water.

## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2019 - IMDG 2018 - ICAO/IATA 2019).

### 14.1. UN number

1263

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### 14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

### 14.3. Transport hazard class(es)

- Classification :



3

### 14.4. Packing group

III

### 14.5. Environmental hazards

- Environmentally hazardous material :



### 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	5 L	163 367 650	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	3	-	III	5 L	F-E, S-E	163 223 367 955	E1	Category A	-

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	3	III	355	60 L	366	220 L	A3 A72 A192	E1
	3	3	III	Y344	10 L	-	-	A3 A72 A192	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15 : REGULATORY INFORMATION

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

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2019/521 (ATP 12)

#### - Container information:

No data available.

#### - Particular provisions :

No data available.

#### - German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 3 : Extremely hazardous for water.

#### - Swiss ordinance on the incentive tax on volatile organic compounds :

78-93-3 butanone (méthyléthylcétone)

### 15.2. Chemical safety assessment

No data available.

**STRATOS R4**

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer .
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.
EUH014	Reacts violently with water.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS08 : Health hazard

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.