

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

## Agent Zincflake E 190 kgs 17-09029

Version 3.1

Revision Date 17.12.2019

Print Date 07.08.2020

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

#### 1.1 Product identifier

Trade name : Agent Zincflake E 190 kgs 17-09029  
Material number : 08835825V

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company :  
  
Telephone :  
Telefax :  
E-mail address : msds.eckart@altana.com  
Responsible/issuing person

#### 1.4 Emergency telephone number

**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

### SECTION 2: Hazards identification

#### GHS Classification

: Flammable liquids, Category 2, H225  
Skin corrosion/irritation, Category 2, H315  
Serious eye damage/eye irritation, Category 2A, H319

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Specific target organ toxicity - single exposure, Category 3, Respiratory system, Central nervous system, H335H336  
 Specific target organ toxicity - repeated exposure, Category 2, H373  
 Aspiration hazard, Category 1, H304  
 Short-term (acute) aquatic hazard, Category 2, H401  
 Long-term (chronic) aquatic hazard, Category 2, H411

### GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H225: Highly flammable liquid and vapour.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.  
 H336: May cause drowsiness or dizziness.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H411: 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.  
 P233 Keep container tightly closed.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P314 Get medical advice/ attention if you feel unwell.  
 P331 Do NOT induce vomiting.

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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label

Identification	CAS-No.
xylene	1330-20-7
ethyl acetate	141-78-6
n-butyl acetate	123-86-4
acetone	67-64-1
Naphtha (petroleum), hydrotreated heavy	64742-48-9
butan-1-ol	71-36-3

### SECTION 3: Composition/information on ingredients

Substance name : WS ZINKSPRAY HELL/W PERFEKT

Substance No. :

#### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
xylene	1330-20-7 215-535-7	Flam. Liq.;3;H226 Acute Tox.;4;H332 ;2;H315 ;2A;H319 STOT SE;3;H335 STOT RE;2;H373 Asp. Tox.;1;H304	10 - 20
zinc powder — zinc dust (stabilised)	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	10 - 20

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ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 Eye Irrit.;2A;H319 STOT SE;3;H336	10 - 20
n-butyl acetate	123-86-4 204-658-1	Flam. Liq.;3;H226 STOT SE;3;H336	10 - 20
acetone	67-64-1 200-662-2	Flam. Liq.;2;H225 Acute Tox.;5;H303 Acute Tox.;5;H313 Eye Irrit.;2A;H319 STOT SE;3;H336	10 - 20
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	Flam. Liq.;4;H227 Asp. Tox.;1;H304	1 - 10
butan-1-ol	71-36-3 200-751-6	Flam. Liq.;3;H226 ;2;H315 ;1;H318 STOT SE;3;H335, H336	1 - 3
Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates	68308-64-5 939-607-9	Acute Tox.;4;H302 Acute Tox.;3;H311 ;1C;H314 ;1;H318 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1

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

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move the victim to fresh air.  
Do not leave the victim unattended.
- Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.
- If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
- Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

This information is not available.

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

This information is not available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, ABC powder, Foam

Unsuitable extinguishing media : High volume water jet

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

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

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting 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. For safety reasons in case of fire, cans should be stored separately in closed containments.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

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Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 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 : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Do not flush with water.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see

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section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.
- No smoking. 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 : Protect from humidity and water.
- Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to



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avoid exothermic reactions.

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

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
xylene	1330-20-7	STEL	100 ppm 442 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
xylene	1330-20-7	AGW	100 ppm 440 mg/m <sup>3</sup>	2010-08-04	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)Skin absorption			

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zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
zinc powder — zinc dust (stabilised)	7440-66-6	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m <sup>3</sup>	2017-06-08	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)				
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m <sup>3</sup>	2017-02-01	2017/164/EU
Further information	Indicative				
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m <sup>3</sup>	2017-02-01	2017/164/EU
Further information	Indicative				
n-butyl	123-86-4	AGW	62 ppm	2012-09-13	DE TRGS 900

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acetate			300 mg/m <sup>3</sup>		
Peak-limit: excursion factor (category)	2;(I)				
Further information	Commission for dangerous substances When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
acetone	67-64-1	TWA	500 ppm 1 210 mg/m <sup>3</sup>	2000-06-16	2000/39/EC
Further information	Indicative				
acetone	67-64-1	AGW	500 ppm 1 200 mg/m <sup>3</sup>	2015-03-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)				
Further information	Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible) When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
aluminium powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Commission for dangerous substances Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Commission for dangerous substances Senate commission for the				

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		review of compounds at the work place dangerous for the health (MAK-commission).			
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	AGW	300 mg/m <sup>3</sup>	2017-11-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900			
butan-1-ol	71-36-3	AGW	100 ppm 310 mg/m <sup>3</sup>	2006-01-01	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Goggles

: Wear face-shield and protective suit for abnormal processing problems.

Hand protection

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- Material : Solvent-resistant gloves (butyl-rubber)
- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Recommended preventive skin protection  
Skin should be washed after contact.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.
- : In the case of vapour formation use a respirator with an approved filter.

### Environmental exposure controls

General advice :

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- : 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.
- Water : The product should not be allowed to enter drains, water  
courses or the soil.
- :

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : No data available
- Odour : characteristic
- pH : No data available
- Freezing point : No data available
- Boiling point/boiling range : 55 °C
- Flash point : -19 °C
- Bulk density : No data available
- Flammability (solid, gas) : No data available
- Auto-flammability : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Density : ca. 1 g/cm<sup>3</sup>

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## Solubility(ies)

Water solubility	: immiscible
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available

## Viscosity

Viscosity, dynamic	: see user defined free text
Viscosity, kinematic	: No data available
Flow time	: 13 - 16 s at 20 °C Cross section: 4 mm Method: DIN 53211

**9.2 Other information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

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Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.  
Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

### 10.6 Hazardous decomposition products

Other information : No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

##### **xylene :**

Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Acute toxicity estimate : 1 100 mg/kg

Method: Converted acute toxicity point estimate

##### **zinc powder — zinc dust (stabilised) :**



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Acute oral toxicity : Rat: &gt; 2 000 mg/kg

**ethyl acetate :**

Acute oral toxicity : Rat: 5 620 mg/kg

Acute inhalation toxicity : LC50 Rat: 56 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Acute dermal toxicity : LD50 Rabbit: &gt; 18 000 mg/kg

**acetone :**

Acute oral toxicity : LD50 Rabbit: 4 700 - 5 800 mg/kg

Mouse: 3 000 mg/kg

Rat: 9 800 mg/kg

Acute inhalation toxicity : LC50 Rat: 76 mg/l

Exposure time: 4 h

Test atmosphere: vapour

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Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

**Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha :**

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Acute inhalation toxicity : LC50 Rat: Test atmosphere: vapour

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 Rabbit: > 5 000 mg/kg

**butan-1-ol :**

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg

Method: Converted acute toxicity point estimate

**Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates :**

Acute oral toxicity : The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : The component/mixture is toxic after single contact with skin.

**Skin corrosion/irritation****Product**

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May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation****Product**

Eye irritation

**Respiratory or skin sensitisation**

No data available

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

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**Further information****Product**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,  
Concentrations substantially above the TLV value may cause narcotic effects., Solvents may  
degrease the skin.

**SECTION 12: Ecological information****12.1 Toxicity****Components:****zinc (7440-66-6) :****Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**ethyl acetate (141-78-6) :**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 717 mg/l

**acetone (67-64-1) :**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 21 600 mg/l

**Quaternary ammonium compounds, coco alkylethyldimethyl, Et sulfates (68308-64-5) :**

M-Factor : 10

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

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No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**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.

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**SECTION 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.

In accordance with local and national regulations.

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Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

**SECTION 14: Transport information****14.1 UN number**

ADR : 1263  
TDG : 1263  
CFR : 1263  
IMDG : 1263  
IATA : 1263

**14.2 Proper shipping name**

ADR : PAINT  
TDG : PAINT  
CFR : PAINT  
IMDG : PAINT  
( ,Zinc powder, stabilized)  
IATA : PAINT

**14.3 Transport hazard class**

ADR : 3  
TDG : 3  
CFR : 3  
IMDG : 3  
IATA : 3

**14.4 Packing group**

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**ADR**

Packaging group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

**TDG**

Packaging group : II  
Labels : 3

**CFR**

Packaging group : II  
Labels : 3

**IMDG**

Packaging group : II  
Labels : 3  
EmS Number : F-E, S-E

**IATA**

Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packaging group : II  
Labels : 3

**14.5 Environmental hazards**

**IMDG** : Marine pollutant

**ADR** : Environmentally hazardous

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**14.6 Special precautions for user****14.7 Transport in bulk according to Annex II of MARPOL 73/78 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**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information****Full text of H-Statements**

H225 : Highly flammable liquid and vapour.

H226 : Flammable liquid and vapour.

H227 : Combustible liquid.



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H228	: Flammable solid.
H302	: Harmful if swallowed.
H303	: May be harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H313	: May be harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H401	: Toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

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