



## SAFETY DATA SHEET

### Tjep-gas grön och röd

Last changed: 27/10/2011

#### 2.3 Other hazards

##### OTHER HAZARDS

Contact with liquid form may cause frostbite. Risk of explosion if heated. Can form an easily ignitable vapour/air mixture.

#### 3 Composition/information on ingredients

##### 3.2 Mixtures

##### INGREDIENT COMMENTS

Under the legislation EC Regulation 1907/2006 (REACH) only substances that are classified as health or environmental hazardous within the meaning of Directive 67/548/EEC, and substances that are classified as health or environmental hazardous according to Regulation (EC) No 1272/2008, as well as substances with occupational exposure limits have to be specified in paragraph 3. Substances that are only flammable and have no exposure limit value falls outside this criterion.

#### 4 First aid measures

##### 4.1 Description of first aid measures

###### INHALATION

Move the exposed person to fresh air at once. Consult a doctor if symptoms should occur. Place unconscious person on the side in the recovery position and ensure breathing can take place. Immediately consult a doctor. If respiratory problems, artificial respiration/oxygen.

###### INGESTION

Thoroughly rinse the mouth with water. Immediately consult a doctor. Show this safety data sheet, if possible.

###### SKIN CONTACT

Immediately rinse with water. Contact with liquid form may cause frostbite. Protect with sterile dressing.

###### EYE CONTACT

Remove contact lenses. Rinse the eye with water immediately. Immediately consult a doctor. Show this safety data sheet, if possible.

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

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

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

###### SUITABLE EXTINGUISHING MEDIA:

Water spray, fog or mist, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).

###### UNSUITABLE EXTINGUISHING MEDIA

Avoid water in straight hose stream; will scatter and spread fire.

###### EXTINGUISHING METHODS

Containers close to fire should be removed immediately or cooled with water.

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

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#### **SPECIAL HAZARDS**

Fire creates: carbon monoxide/Carbondioxide. Risk of explosion if heated. In use, may form flammable/explosive vapour-air mixture.

#### **5.3 Advice for fire-fighters**

##### **ADVICE FOR FIREFIGHTERS**

Avoid breathing fire vapours. Use compressed air breathing apparatus and protective clothing intended for fire fighting.

#### **OTHER INFORMATION**

Fire residues and extinguishing water must be disposed of in accordance with local rules.

#### **6 Accidental release measures**

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

###### **PERSONAL PRECAUTIONS**

Keep the emission separate from sources of ignition. No smoking. Use only in well-ventilated areas. Avoid inhalation and contact with skin and eyes.

##### **6.2 Environmental precautions**

###### **ENVIRONMENTAL PRECAUTIONS**

Prevent spreading to cellars and cavities or other locations where gas accumulation may be dangerous.

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

###### **METHODS AND MATERIAL**

Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be per

##### **6.4 Reference to other sections**

#### **7 Handling and Storage**

##### **7.1 Precautions for safe handling**

###### **PRECAUTION FOR SAFE HANDLING**

All handling to take place in well ventilated area. Eliminate all sources of ignition. No smoking. Take precautionary measures against static discharges. Only use equipment that is suitable for this product and the intended pressure and temperature. Avoid exposure - obtain special instructions before use.

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

###### **CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Keep in a cool, well-ventilated place. Keep upright. Keep away from combustible material. Not to be stored in direct sunlight. Pressurized container: Must not be exposed for temperatures above 50 °C.

##### **7.3 Specific end uses**

#### **8 Exposure controls / Personal protection**

##### **8.1 Control parameters**

##### **8.2 Exposure controls**

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#### APPROPRIATE ENGINEERING CONTROLS

Mechanical ventilation or local exhaust ventilation is required.

#### SKIN PROTECTION

Wear suitable protective clothing.

#### HAND PROTECTION

Use protective gloves made of: Not translated to English

#### RESPIRATORY PROTECTION

Breathing apparatus must be used if the limit values are exceeded. If necessary, respirator with AX filter (brown).

#### LIMITATION OF ENVIRONMENTAL EXPOSURE

No information available

### 9 Physical and chemical Properties

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

**PHYSICAL STATE** High-pressure gas

**COLOUR** Colourless.

**ODOUR** Characteristic.

**SOLUBILITY** Not water-soluble

Parameter	Value/unit	Method/reference	Observation
pH concentrate	Not relevant		
pH in solution	Not relevant		
Melting point	Not relevant		
Freezing point	Not relevant		
Initial boiling point and boiling range	Not relevant		
Flash point	Not relevant		
Evaporation rate	Not relevant		
Flammability (solid, gas)	Not relevant		
Flammability limits	Not relevant		
Explosion limits	Not relevant		
Vapour pressure	Not relevant		
Vapour density	Not relevant		
Relative density	Not relevant		
Partition coefficient	Not relevant		
Auto-ignition temperature	Not relevant		
Decomposition temperature	Not relevant		
Viscosity	Not relevant		

#### 9.2 Other safety information

Note no.	Comments

#### OTHER INFORMATION

Gases, heavier than air.

### 10 Stability and Reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

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#### CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to avoid

##### CONDITIONS TO AVOID

Avoid heat, sparks and open flame. Risk of explosion if pressure increases.

#### 10.5 Incompatible materials

##### INCOMPATIBLE MATERIALS

Avoid contact with oxidizing substances.

#### 10.6 Hazardous decomposition products:

##### OTHER INFORMATION

No hazardous decomposition products.

### 11 Toxicological information

#### 11.1 Toxicological effects

##### ACUTE TOXICITY - INHALATION

The gas is suffocating because it displaces oxygen in the air. May cause breathing difficulties. May cause dizziness, nausea and headache. May affect the central nervous system.

### 12 Ecological information

#### 12.1 Toxicity

##### ECOTOXICITY

Not regarded as dangerous for the environment.

#### 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects

### 13 Disposal considerations

#### 13.1 Waste treatment methods

##### GENERAL REGULATIONS

Empty containers must not be subjected to temperatures over +50 °C, or punctured.

### 14 Transport information

Classified as Dangerous Goods: Yes

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#### Land transport (ADR/RID)

14.1 UN-No.	3150	14.4 Packing group	-
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class (es)	2		
Hazard label (s)	2.1		
Hazard ID:	23	Tunnel restriction code	B/D

#### Inland water ways transport (ADN)

14.1 UN-No.		14.4 Packing group	-
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class(es)	2		
Environmentally hazardous in tank-vessels			

#### Sea transport (IMDG)

14.1 UN-No.		14.4 Packing group	-
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class (es)	2.1		
Sub Risk:			
IMDG Code segregation group			
Marine pollutant	no		
EMS:	F-D, S-U		

#### Air transport (ICAO-TI / IATA-DGR)

14.1 UN-No.		14.4 Packing group	-
14.2 Proper Shipping Name		14.5 Environmental hazards	
14.3 Class (es)	2.1		
Hazard label (s)			

### 15 Regulatory information

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

15.2 Chemical Safety Assessment

### 16 Other information

Indication of changes

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#### Indication of changes

Version	Rev. date	Responsible	Changes
1.0.0	27/10/2011	AP	Updated according to Annex II, 1907/2006/Reach
2.0.0	17/01/2012	AP	Updated in paragraph 3

#### Information sources

MSDS supplied by the manufacturer.

#### SDS IS PREPARED BY

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