



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product	3810202 Maxigas 400
Manufacturer/distributor	TGK GmbH Helleforthstraße 18 - 20, D-33758 Schloß Holte - Stukenbrock Phone 05207 91280, Fax 05207 912840 E-Mail tgk@tgk.de Internet www.tgk.de
Advice	Phone 05207 91280 Fax 05207 912840
Emergency advice	Phone 05207 91280

2. HAZARDS IDENTIFICATION

Classification

F+; R12

R-phrases

12 Extremely flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
67-64-1	200-662-2	acetone		F R11; Xi R36; R66; R67
74-98-6	200-827-9	propane		F+ R12
106-97-8	203-448-7	butane		F+ R12
115-07-1	204-062-1	propene		F+ R12

4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately.
Remove moisted clothing immediately.
Take affected person into fresh air.

In case of inhalation

Ensure of fresh air.
Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with water.
Remove contaminated clothing.
In case of frostbite rinse with plenty of water. Don't remove clothing.
Refer for medical treatment.



In case of eye contact

In case of contact with eyes rinse 10 minutes under running water while keeping eyelids open.
Refer to medical treatment.

In case of ingestion

In the event of persistent symptoms seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam
Dry powder
Carbon dioxide

Extinguishing media which must not be used for safety reasons

Do not use water!
Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire the following can be released:
In case of fire formation of harmful smoulder gas that may explode in air.
Carbon monoxide (CO)

Special protective equipment for fire-fighters

Protective equipment/clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid skin contact.
Wear protective clothing.

Environmental precautions

no

Methods for cleaning up

Provide for sufficient ventilation.

Additional Information

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.
Informations for disposal see chapter 13.

7. HANDLING AND STORAGE

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Attention: container is pressurized.
Protect from sun and temperatures more than 50°C.
Do not open by force or burn even after use. Do not spray against flames or on glowing object.

Advice on storage compatibility

Do not store with oxidizing agents.
Do not store together with acids.



Further information on storage conditions

Protect from sun and temperatures more than 50°C.

Keep in a cool place.

Observe the official regulations for the storage of compressed gas packages.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
67-64-1	acetone	8 hours	1210	500	

biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Unter- suchungs- material	Proben- nahme- zeitpunkt
67-64-1	acetone	Aceton	80 mg/l	U	b

Respiratory protection

If ventilation insufficient, wear respiratory protection.

Hand protection

Protective gloves

Skin protection

protective clothing

General protective measures

Do not inhale gases/vapours/aerosols.

Hygiene measures

Work in rooms with good ventilation.

Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form aerosol	Colour colourless	Odour characteristic
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Important health, safety and environmental information

	Value	Temperature at	Method	Remark
boiling point	-44 °C			
Flash point	< 0 °C			
Ignition temperature	365 °C			
Autoignition	not determined			
Lower explosion limit	1,5 Vol-%			
Upper explosion limit	10,9 Vol-%			
Vapour pressure	5,4 bar	20 °C		



	Value	Temperature	at	Method	Remark
Density	0,55 kg/m ³				
Solubility in water					not/poorly soluble

Explosive properties

The product is not explosive, however the formation of explosive mixtures of vapor and air is possible.

10. STABILITY AND REACTIVITY

Materials to avoid

No hazardous reactions known.

Hazardous decomposition products

Carbon monoxide

Thermal decomposition

Remark No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

Experiences made from practice

May cause frostbite.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Packaging that cannot be cleaned should be disposed of like the product.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS (propane), 2.1

Marine transport IMDG

UN 1950 AEROSOLS (propane), 2.1

Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable (propane), 2.1

! 15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives.

Classification

F+ Extremely flammable



R-phrases

12 Extremely flammable.

S-phrases

16 Keep away from sources of ignition - No smoking.

2 Keep out of the reach of children.

Special labelling for certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray into flames or onto glowing objects.

National regulations

Water hazard class - self-classification
nwh - not water hazardous

! Other regulations, restrictions and prohibition regulations

To observe: TRG 280 "General demands for gas pressure vessels; operating with gas pressure vessels"

16. OTHER INFORMATION

Further information

All declarations of safety-data-sheet refer to pure substance.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 11 Highly flammable.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.