TECPO

TECPO Bremsenreiniger_EN

Version number: 1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name
TECPO Bremsenreiniger_EN

Article No.
300572

UFI code
FV1W-N7Q3-7KSC-KG8X

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

Relevant identified uses
Cleaning agent.

Not suitable for use in
No further relevant information available.

1.3. Details of the supplier of the safety data sheet

SDS created by
Gefahrgutberatung Florian Herber, Erbigsweg 12, 36137 Großenlüder
Telefon: 0163 / 8408334
E-Mail: kontakt@gefahrgut-herber.de
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Supplier
TECPO GmbH

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Telephone
+49 2191 951 3305

Email
info@tecpo.de

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+49 2191 951 33044

Web site
www.tecpo.de

1.4. Emergency telephone number

Poison center/Additional emergency number

+49 (0) 89 19240 - Poison Emergency Call Munich

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Aerosol, Hazard category 1
Aspiration hazard, hazard category 1
Skin irritation, hazard category 2
Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis
Hazardous to the aquatic environment — Chronic hazard category 2

Hazard statements

H222, H229, H304, H315, H336, H411

Description

The product is classified and labeled according to the CLP regulation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing aerosol.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water/.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container to dispose of in accordance with local / regional / national / international regulations.

2.3. Other hazards

In case of insufficient ventilation and/or due to use, formation of explosive/highly flammable mixtures possible. mixtures possible.
This product does not contain any PBT or vPvB substances.
This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient meets the criteria.

Other

Hazard-determining components of labeling:
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane	64742-49-0 921-024-6 01-2119475514-35 -	50 - <100%	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3 - narcosis, Aquatic Chronic 2	H225, H304, H315, H336, H411 - -	inhalative: LC50 = > 25,2 mg/l; dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >5000 mg/kg
Carbon dioxide	124-38-9 204-696-9 - -	3 - <5%	-	- - -	-

Substance additional information
For the complete text of H- / EUH-statements mentioned in this section, see section 16.

Regulation (EC) No. 648/2004 on detergents / labeling of ingredients
>= 30 % aliphatic hydrocarbons

SECTION 4: First aid measures

4.1. Description of first aid measures

First aiders should pay attention to self-protection. Bring people to safety. Never give anything by mouth to an unconscious person or if convulsions occur.

Inhalation
Remove person to fresh air and keep comfortable for breathing. If symptoms occur or in case of doubt, seek medical advice.

Skin contact
Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If symptoms occur or in case of doubt, seek medical advice.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur or persist, consult an ophthalmologist.

Ingestion
Do NOT induce vomiting. In case of vomiting, note the risk of aspiration. Always consult a doctor!

4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Symptomatic treatment. Call a POISON CENTER. Symptoms may not appear until many hours after exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media
Full water jet.

5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Do not inhale explosion and combustion gases. If safe to do so, remove undamaged containers from the danger zone. In case of fire: Use self-contained breathing apparatus.

Other
Risk of the container bursting.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Respiratory protection must be used when exposed to vapors, dusts and aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment.

Staff not trained for emergencies: First aiders should pay attention to self-protection.

Emergency services: Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions
Do not allow to enter drains or waterways. Prevent the spill from spreading (e.g. by containing it with oil booms). Ensure that all wastewater is collected and treated in a wastewater treatment plant.

6.3. Methods and material for containment and cleaning up
Prevent the spill from spreading (e.g. by containing it with oil booms).
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Thoroughly clean soiled objects and floors in compliance with environmental regulations.

6.4. Reference to other sections
See SECTIONS 7+8+13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Preventive handling precautions
Follow the instructions for use. Dust must be safely extracted directly at the point of origin. Vapors/aerosols must be safely extracted directly at the point of origin. If local extraction is not possible or insufficient, good ventilation of the work area should be ensured wherever possible. Do not eat, drink, smoke or sniff at the workplace. Wear personal protective equipment (see section 8). Formation of explosive/highly flammable mixtures possible with insufficient ventilation and/or through use.

Notes on fire and explosion protection:
Keep away from sources of ignition - No smoking. Heating leads to an increase in pressure and risk of bursting.

Information on general hygiene measures at the workplace:
Avoid exposure. Wear suitable protective clothing when working. Draw up and observe a skin protection plan!

Further information on handling:
Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and containers:
Keep container tightly closed. Observe legal rules and regulations.

Storage instructions:
Do not store together with: Oxidizing agents. Pyrophoric or self-heating hazardous substances. Food and animal feed.

Further information on storage conditions:
Protect from frost. Protect from direct sunlight. Store in a cool and dry place. Observe legal rules and regulations.

Storage class according to TRGS 510: 2B Compressed gas packs (aerosol dispensers)

7.3. Specific end use(s)
There is no information available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

a no restriction
b End of exposure or end of shift
c for long-term exposure: after several previous shifts
d before subsequent layer

Y: A risk of fruit damage need not be feared if the occupational exposure limit value (OEL) and the biological limit value (BGW) are complied with
Z: A risk of fruit damage cannot be excluded even if the occupational exposure limit value (OEL) and the biological limit value (BGW) are complied with Blood (B)
Urine (U)

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Source	Remark	Year
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane	64742-49-0 921-024-6	- 700	TRGS 900	2(II)	-
Carbon dioxide	124-38-9 204-696-9	5000 9100	TRGS 900	2(II)	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane (64742-49-0/921-024-6)	DNEL	Chronic (long term) Oral	699 mg/kg bw/day	Consumers	Systemic
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane (64742-49-0/921-024-6)	DNEL	Chronic (long term) Dermal	773 mg/kg bw/day	Workers	Systemic
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane (64742-49-0/921-024-6)	DNEL	Chronic (long term) Dermal	699 mg/kg bw/day	Consumers	Systemic
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane (64742-49-0/921-024-6)	DNEL	Chronic (long term) Inhalation	2035 mg/m³	Workers	Systemic
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane (64742-49-0/921-024-6)	DNEL	Chronic (long term) Inhalation	608 mg/m³	Consumers	Systemic

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8.2. Exposure controls

Appropriate engineering controls

For open handling, use devices with local exhaust ventilation.

Personal Protective Equipment Symbols



Eye / face protection

Tightly sealed safety goggles DIN EN 166

Hand protection

Preventive skin protection with skin protection ointment. When handling chemical substances, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace depending on the concentration and quantity of hazardous substances.
Suitable material: NBR (nitrile rubber) Breakthrough time: 480min
Thickness of the glove material 0.45 mm
EN ISO 374

Other skin protection

Wear suitable protective clothing when working. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Respiratory protection must be used when exposed to vapors, dusts and aerosols. If the relevant occupational exposure limit values are exceeded, the following must be observed: Suitable breathing apparatus: Combination filter apparatus (DIN EN 141).
Filter unit with filter or blower filter unit type: A
The wearing time limits specified by the manufacturer must be observed.
Observe legal rules and regulations.

Environmental exposure controls

Observe legal rules and regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colorless

Odour

by solvent

Melting point / freezing point
Not determined.

Boiling point or initial boiling point and boiling range
88 °C

Flammability
Not applicable.

Lower and upper explosion limit
Untere: 1 Vol-%; Obere: 8 Vol-%

Flash point
-12 °C

Auto-ignition temperature
Not applicable.

Decomposition temperature
Not determined.

pH
DIN 19268

Kinematic viscosity
< 7 mm²/s
Method
@40 °C

Solubility
Not determined.

Water solubility
insoluble

Partition coefficient n-octanol/water
Not determined.

Vapour pressure
Not determined.

Density and/or relative density
0,714 g/cm³
Method
@ 20 °C

Relative vapour density
Not determined.

Evaporation Rate
Not determined.

Oxidising properties
Not oxidizing.

Particle characteristics
No data available

Information on basic physical and chemical properties
The product is not self-igniting.

9.2. Other information
The data refer to the technical active substance: relative density, color, odor, viscosity, pH value.

SECTION 10: Stability and reactivity

10.1. Reactivity
Extremely flammable aerosol.

10.2. Chemical stability
The product is stable under normal conditions.

10.3. Possibility of hazardous reactions
Do not expose to temperatures above 50 °C. Heating leads to an increase in pressure and risk of bursting.

10.4. Conditions to avoid
Keep away from heat, sparks and open flame. Vapors can form an explosive mixture with air.
Take measures against electrostatic charging.

10.5. Incompatible materials
Oxidizing agent. Pyrophoric or self-heating hazardous substances.

10.6. Hazardous decomposition products
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Other
Do not mix with other chemicals.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATEmix calculated
ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapor) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Acute toxicity
Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	LD50	>5000 mg/kg	Oral	-	Rat
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	LD50	>2800 - 3100 mg/kg	Dermal	-	Rat
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	LC50	>25,2 mg/l	Inhalative	4 hours	Rat

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
May cause drowsiness or dizziness.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
May be fatal if swallowed and enters the respiratory tract.

Routes of exposure
Ingestion, inhalation, skin contact, eye contact. See sections: 2.1, 4.2.

11.2. Information on other hazards
Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards humans, as no ingredient meets the criteria.

Other information
There is no information available.

SECTION 12: Ecological information

12.1. Toxicity
Acute toxicity
Toxic to aquatic life with long lasting effects.

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	LC50	> 1 - 10 mg/l	96 hours	Pimephales promelas (Fat-head Minnow)
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	NOEC	2,045 mg/l	28 days	Onchorhynchus mykiss (Rainbow trout)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	ErC50	10 - 30 mg/l	72 hours	Pseudokirchneriella subcapitata

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	EC50	> 1 - 10 mg/l	48 hours	Daphnia magna	-
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	NOEC	1 mg/l	21 days	Daphnia magna	OECD 211

12.2. Persistence and degradability

Persistence and degradability

No further relevant information available.

Product / Substance name CAS / EC no.	Duration	Result	Method / Guideline	Remark
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	28 days	98 %	OECD 301 F	Readily biodegradable according to OECD criteria

12.3. Bioaccumulative potential

Bioaccumulative potential

No further relevant information available.

Product / Substance name CAS / EC no.	LogKow / LogPow
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane 64742-49-0 / 921-024-6	3,4 - 5,2

12.4. Mobility in soil

Mobility

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The substances in the mixture do not fulfill the PBT/vPvB criteria according to REACH, Annex XIII.
This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

12.7. Other adverse effects

Other adverse effects

No further relevant information available.

Other

Do not allow product to reach ground water, water course or sewage system.
Do not allow to enter the subsoil/soil.

German Water Class

WGK2 - significantly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Do not allow to enter drains or waterways. Disposal in accordance with official regulations.

Packaging

Uncleaned packaging: Disposal in accordance with official regulations.

Waste code	Waste description
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
15 01 04	metallic packaging

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

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SECTION 14: Transport information

14.1. UN number
1950

14.2. UN proper shipping name
ADR / RID / ADN proper shipping name
AEROSOLS, flammable

IMDG proper shipping name
AEROSOLS

14.3. Transport hazard class(es)
Label
ADR/RID/ADN



2.1

IMDG



2.1

ADR / RID Class
2
Tunnel restriction code: D
Transportation category: 2

ADR / RID Classification code
5F

IMDG Class
2

14.4. Packing group
ADR: -
IMDG: -

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS

IMDG Marine Pollutant
ENVIRONMENTALLY HAZARDOUS

14.6. Special precautions for user

Caution: Flammable gases.

IMDG EmS

F-D, S-U

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other

Additional information ADR-RID

Limited quantity: 1 L

Additional information IMDG

Limited quantity: 1 L

SECTION 15: Regulatory information

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

EU regulations

Annex XVII (REACH): The product is subject to the following restrictions according to Annex XVII, Regulation (EC) 1907/2006 (REACH): 3 , 40

Directive 2010/75/EU on industrial emissions: There is no information available.

Directive 2004/42/EC on VOCs from paints and varnishes: There is no information available.

Substances of Very High Concern (SVHC) according to REACH, Article 57: There is no information available.

National regulations

Employment restrictions: Observe employment restrictions for young people (§ 22 JArbSchG)

Water hazard classification : 2 - clearly hazardous to water

Storage class: 2B Compressed gas packs (aerosol dispensers)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW - Occupational Exposure Limit (Arbeitsplatzgrenzwert)
ATE - Acute Toxicity Estimate
AwSV - Ordinance on Installations for Handling Substances Hazardous to Water
C&L - Einstufung und Kennzeichnung
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSR - Chemical Safety Report
DNEL - Derived No Effect Level
ECHA - European Chemicals Agency
GefStoffV - Hazardous Substances Ordinance (Gefahrstoffverordnung)
GHS - Globally Harmonized System
IMDG - International Maritime Dangerous Goods
International Air Transport Association
IUCLID - International Uniform Chemical Information Database
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LGK - Storage Class (Lagerklasse)
OEL - Occupational Exposure Lim
PBT - Persistent, Bioaccumulative and Toxic substance
PNEC - Predicted No Effect Concentration(s)
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SCBA - Self-Contained Breathing Apparatus
STOT - Specific Target Organ Toxicity
SVHC - Substances of Very High Concern
TRGS - Technische Regeln für Gefahrstoffe
UFI - Unique Formula Identifier
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class (Wassergefährdungsklasse)

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Phrase meaning

Aerosol 1 - Aerosol, Hazard category 1
Asp. Tox. 1 - Aspiration hazard, hazard category 1
Skin Irrit. 2 - Skin irritation, hazard category 2
STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
Flam. Liq. 2 - Flammable liquids, hazard category 2
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Other

Additional information

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations. The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information is intended to provide you with guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transportation and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials
processed or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.

Manufacturer's notes

The data of the relevant components were taken from the latest safety data sheet of the upstream supplier.