

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.06.2021

Version number 5

Revision: 16.06.2021

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

- **1.1 Product identifier**
- **Trade name: SHERASEPARAT**
- **Article number: 701105**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SHERA Werkstoff-Technologie GmbH & Co. KG  
Espohlstraße 53  
D-49448 Lemförde  
GERMANY  
sdb@shera.de  
+ 49 (0) 54 43 – 99 33 – 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**  
Giftinformationszentrum-Nord: +49 (0) 551-19240  
(Information in german or english)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms:**



GHS02    GHS07    GHS09

- **Signal word:** Danger
- **Hazard-determining components of labelling:**  
Hydrocarbons, C6, isoalkanes, <5% n-hexane  
heptane  
methylcyclohexane
- **Hazard statements:**  
H222-H229 Extremely flammable aerosol. 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:**  
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 spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.

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P302+P352 IF ON SKIN: Wash with plenty of water.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	50-100%
	Hydrocarbons, C6, isoalkanes, <5% n-hexane Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥25-≤50%
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<10%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	≥1-<10%
CAS: 108-87-2 EINECS: 203-624-3 Index number: 601-018-00-7	methylcyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥2.5-<10%
CAS: 287-92-3 EINECS: 206-016-6 Index number: 601-030-00-2	cyclopentane Flam. Liq. 2, H225; Aquatic Chronic 3, H412	≥1-<2.5%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
Supply fresh air.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
In case of skin irritation, seek medical treatment.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO).
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation / exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Stehende Lagerung.  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
Keep container tightly sealed.  
Do not seal receptacle gas tight.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Storage class:**  
2B  
No information available.

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· **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

<b>75-28-5 isobutane</b>	
AGW (Germany)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm 4(II);DFG
<b>142-82-5 heptane</b>	
WEL (Great Britain)	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
MAK (Germany)	Long-term value: 2100 mg/m <sup>3</sup> , 500 ppm vgl. Abschn. XII
IOELV (EU)	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
<b>64-17-5 ethanol</b>	
WEL (Great Britain)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
AGW (Germany)	Long-term value: 380 mg/m <sup>3</sup> , 200 ppm 4(II);DFG, Y
<b>108-87-2 methylcyclohexane</b>	
AGW (Germany)	Long-term value: 810 mg/m <sup>3</sup> , 200 ppm 2(II);DFG

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye/face protection**



Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

· <b>Physical state</b>	Aerosol
· <b>Colour:</b>	Whitish
· <b>Odour:</b>	Petroleum-like
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	-11 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.1 Vol %
· <b>Upper:</b>	9.4 Vol %
· <b>Flash point:</b>	-26 °C
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not applicable.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	3,000 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.65 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

- **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Aerosol
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	215 °C
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	16.0 %
· <b>VOC (EC):</b>	95.00 %
· <b>Solids content:</b>	0.0 %
· <b>Change in condition:</b>	
· <b>Evaporation rate</b>	Not applicable.

- **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void.
· <b>Flammable gases</b>	Void.

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· <b>Aerosols</b>	Extremely flammable aerosol. Pressurised container: May burst if heated.
· <b>Oxidising gases</b>	Void.
· <b>Gases under pressure</b>	Void.
· <b>Flammable liquids</b>	Void.
· <b>Flammable solids</b>	Void.
· <b>Self-reactive substances and mixtures</b>	Void.
· <b>Pyrophoric liquids</b>	Void.
· <b>Pyrophoric solids</b>	Void.
· <b>Self-heating substances and mixtures</b>	Void.
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void.
· <b>Oxidising liquids</b>	Void.
· <b>Oxidising solids</b>	Void.
· <b>Organic peroxides</b>	Void.
· <b>Corrosive to metals</b>	Void.
· <b>Desensitised explosives</b>	Void.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **10.2 Chemical stability** No data available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity:** No data available.

#### · LD/LC50 values relevant for classification:

##### 64-17-5 ethanol

Oral	LD50	10,470 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	117-125 mg/l (Rat)

##### 108-87-2 methylcyclohexane

Oral	LD50	2,250 mg/kg (Mouse)
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- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** No data available.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

#### · Endocrine disrupting properties

None of the ingredients is listed.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 64-17-5 ethanol

EC50/72 h | 275 mg/l (Algae)

LC50/48 h | 5,012 mg/l (Daphnia (Daphnia magna))

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

#### · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects

· **Remark:** Toxic for fish.

#### · Additional ecological information:

##### · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · Waste disposal key:

The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

##### · Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### · 14.1 UN number or ID number

##### · ADR, IMDG, IATA

UN1950

#### · 14.2 UN proper shipping name

##### · ADR

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

##### · IMDG

AEROSOLS (Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane, HEPTANES), MARINE POLLUTANT

##### · IATA

AEROSOLS, flammable

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<p>· <b>14.3 Transport hazard class(es)</b></p> <p>· <b>ADR</b></p> <div style="display: flex; align-items: center; gap: 10px;">  </div> <p>· <b>Class</b> 2.5F Gases.</p> <p>· <b>Label</b> 2.1</p>	
<p>· <b>IMDG</b></p> <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 2.1</p> <p>· <b>Label</b> 2.1</p>	
<p>· <b>IATA</b></p> <div style="display: flex; align-items: center; gap: 10px;">  </div> <p>· <b>Class</b> 2.1</p> <p>· <b>Label</b> 2.1</p>	
<p>· <b>14.4 Packing group</b></p> <p>· <b>ADR, IMDG, IATA</b> Void.</p>	
<p>· <b>14.5 Environmental hazards:</b> Product contains environmentally hazardous substances: heptane</p> <p>· <b>Marine pollutant:</b> No. Symbol (fish and tree)</p>	
<p>· <b>14.6 Special precautions for user</b> Warning: Gases.</p> <p>· <b>Hazard identification number (Kemler code):</b> -</p> <p>· <b>EMS Number:</b> F-D,S-U</p> <p>· <b>Stowage Code</b> SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p> <p>· <b>Segregation Code</b> SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>	
<p>· <b>14.7 Maritime transport in bulk according to IMO instruments</b> Not applicable.</p>	
<p>· <b>Transport/Additional information:</b></p> <p>· <b>ADR</b></p> <p>· <b>Excepted quantities (EQ):</b> E0</p>	

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· <b>Limited quantities (LQ):</b>	1L
· <b>Excepted quantities (EQ):</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category:</b>	2
· <b>Tunnel restriction code:</b>	D
· <b>Remarks:</b>	LQ: Maximum 30 kg per package (carton), apply "UN 1950" (rhombus) and "AEROSOLS" onto the carton.
<hr/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ):</b>	1L
· <b>Excepted quantities (EQ):</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
P3a FLAMMABLE AEROSOLS  
E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Relevant phrases**  
H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
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.
- **Department issuing SDS:** Department of product security.
- **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organisation  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Gas 1A: Flammable gases – Category 1A  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas (Comp.): Gases under pressure – Compressed gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **\* Data compared to the previous version altered.**

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