



Safety Data Sheet

According to Regulation (EC) No 1272/2008 (CLP) and (EC) No 1907/2006 (REACH)

Initial preparation date: 09.19.2017

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Aerosol Rub-O Matic

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

1.1 Product identifier

Product Name: Aerosol Rub-O Matic

Product code: 704A

Additional information: Rev. 7.0

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

Relevant identified uses: Rubber cleaner

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

North America

Tech International
200 East Coshocton Street
Johnstown, OH 43031
1-740-967-9015

Supplier:

United Kingdom

Tech International Europe
15 Ballinderry Road
Lisburn, BT28 2SA, UK
0044 2892 665721
info@techeurope.co.uk

1.4 Emergency telephone number:

European Union

CHEMTREC

UK (London) +(44)-870-8200418
Poland (Warsaw) +(48)-223988029
Sweden (Stockholm) +(46)-852503403

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No1278/2008 (CLP):

Flammable aerosols, category 1

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3, central nervous system

Aspiration hazard, category 1

Chronic aquatic hazard, category 1

Acute aquatic hazard, category 1

Hazard-determining components of labeling:

Light Aliphatic Naphtha

N-Heptane

Isobutane

Propane

2.2 Label elements

Hazard pictograms:

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Signal word: Danger

Hazard statements:

- H222 Extremely flammable aerosol.
- H229 Pressurized container: may burst if heated.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H315+H320 Causes skin and eye irritation.
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P362 Take off contaminated clothing.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P331 Do not induce vomiting.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P391 Collect spillage.
- P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- P405 Store locked up.
- P403+P233 Store in a well ventilated place. Keep container tightly closed.
- P501 Dispose of contents and container as instructed in Section 13.

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No1278/2008 (CLP)	Weight %
CAS number: 64742-89-8 EC number: 265-192-2	Light Aliphatic Naphtha	Asp. Tox. 1; H304	59.5-72

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CAS number: 142-82-5 EC number: 205-563-8	N-Heptane	Asp. Tox. 1; H304 Skin Irrit. 2 ; H315 Stot SE 3; H336 Flam. Liq. 2; H225 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	17-27
CAS number: 74-98-6 EC number: 200-827-9	Propane	Flammable gases, category 1 Press. Gas; H280	7-10
CAS number: 75-28-5 EC number: 200-857-2	Isobutane	Press. Gas; H280 Flammable gases, category 1	3-5

Additional information:

According to Note P of EC 1272/2008 (CLP) Annex VI, the substance "light aliphatic naphtha" should not be classified as a "carcinogen" or "mutagen" ingredient, because the benzene (EINECS 200-753-7) content is lower than 0.1% in weight.

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Not determined or not available.

Following inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Following skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

Wash with plenty of lukewarm, gently flowing water

Get medical advice if skin irritation occurs or you feel unwell

Following eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Following ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

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Not determined or not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Not determined or not applicable.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Vapors can flow to distant ignition sources and flashback.

Liquid is volatile and may generate an explosive atmosphere.

Contents under pressure.

In a fire or if heated, a pressure increase will occur and the container may burst or explode.

5.3 Advice for firefighters

Personal protection equipment:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Shut off sources of ignition.

Carbon monoxide and carbon dioxide may form upon combustion.

Heating causes a rise in pressure, risk of bursting and combustion.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

6.2 Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.

Use spark-proof tools and explosion-proof equipment.

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).

Dispose of contents / container in accordance with local regulations.

6.4 Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

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Do not puncture, crush, or incinerate containers, even when empty.
Protect cylinders from physical damage.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).
Protect from direct sunlight.
Store cylinders upright.

7.3 Specific end use(s):

Not determined or not applicable.

SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Estonia	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 1 mg/m ³ [Oil (naphtha) vapors]
	Isobutane	75-28-5	8-hour TWA: 800 ppm (1900 mg/m ³)
	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	N-Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m ³)
Latvia	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 10 mg/m ³ (Naphtha)
	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 100 mg/m ³ (Petroleum benzin)
	Isobutane	75-28-5	8-hour TWA: 100 mg/m ³
	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	Isobutane	75-28-5	15-minute STEL: 300 mg/m ³
	N-Heptane	142-82-5	8-hour TWA: 350 mg/m ³ (85 ppm)
	N-Heptane	142-82-5	15-minute STEL: 2085 mg/m ³ (500 ppm)
Bulgaria	Propane	74-98-6	TWA (1,800 mg/m ³)
	N-Heptane	142-82-5	TWA: 1600 mg/m ³
Lithuania	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 180 mg/m ³ (50 ppm) [Petrol ether (industrial) - hexane based]
	Light Aliphatic Naphtha	64742-89-8	15-minute STEL: 250 mg/m ³ (75 ppm) [Petrol ether (industrial) - hexane based]

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 800 mg/m ³ (200 ppm) [Petrol ether (industrial) - heptane based (< 5% n-hexane)]
	Light Aliphatic Naphtha	64742-89-8	15-minute STEL: 1200 mg/m ³ (300 ppm) [Petrol ether (industrial) - heptane based (< 5% n-hexane)]
	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 900 mg/m ³ (200 ppm) [Petrol ether (industrial) - octane based]
	Light Aliphatic Naphtha	64742-89-8	15-minute STEL: 1400 mg/m ³ (300 ppm) [Petrol ether (industrial) - octane based]
	N-Heptane	142-82-5	8-hour TWA: 2085 mg/m ³ (500 ppm)
	N-Heptane	142-82-5	15-minute STEL: 3128 mg/m ³ (750 ppm)
Romania	Isobutane	75-28-5	8-Hour TWA: 1200 mg/m ³
	Propane	74-98-6	TWA 8-hr: 1,400 mg/m ³ (778 ppm)
	Isobutane	75-28-5	15-minute STEL: 1500 mg/m ³
	Propane	74-98-6	STEL 15-min: 1,800 mg/m ³ (1,000 ppm)
	Light Aliphatic Naphtha	64742-89-8	8-hour TWA: 100 mg/m ³ [Solvent naphtha (coal tar)]
	Light Aliphatic Naphtha	64742-89-8	15-minute STEL: 200 mg/m ³ [Solvent naphtha (coal tar)]
	N-Heptane	142-82-5	8-hour TWA: 2085 mg/m ³ (500 ppm)
Poland	Propane	74-98-6	TWA (NDS) 8-hr: 1,800 mg/m ³
	Light Aliphatic Naphtha	64742-89-8	8-hour TWA (NDS): 500 mg/m ³
	Light Aliphatic Naphtha	64742-89-8	15-minute STEL (NDSCh): 1500 mg/m ³
	N-Heptane	142-82-5	8-hour TWA (NDS): 1200 mg/m ³
	N-Heptane	142-82-5	15-minute STEL (NDSCh): 2000 mg/m ³
Slovakia	Isobutane	75-28-5	8-hour TWA: 1000 ppm (2400 mg/m ³)
	N-Heptane	142-82-5	8-hour TWA (NPEL): 500 ppm (2085 mg/m ³)
Slovenia	Isobutane	75-28-5	8-hour TWA: 1000 ppm (2400 mg/m ³)
	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	N-Heptane	142-82-5	8-hour TWA: 2085 mg/m ³ (500 ppm)
Austria	Isobutane	75-28-5	TWA: 800 ppm (1900 mg/m ³)
	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	Propane	74-98-6	Ceiling: 3,600 mg/m ³ (2,000 ppm)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Isobutane	75-28-5	Ceiling value: 1600 ppm (3800 mg/m ³)
Belgium	Isobutane	75-28-5	8-hour TWA: 1000 ppm
	Propane	74-98-6	TWA 8-hr: 1,000 ppm
	N-Heptane	142-82-5	8-hour TWA: 400 ppm (1664 mg/m ³)
	N-Heptane	142-82-5	15-minute STEL: 500 ppm (2085 mg/m ³)
Portugal	Light Aliphatic Naphtha	64742-89-8	8-hour exposure limit: 400 ppm
	Isobutane	75-28-5	8-hour exposure limit: 1000 ppm
	N-Heptane	142-82-5	Decree-Law No. 24/2012 8-hour TWA: 500 ppm (2085 mg/m ³)
	N-Heptane	142-82-5	NP 1796-2007 8-hour exposure limit: 400 ppm
	N-Heptane	142-82-5	NP 1796-2007 Short-term exposure limit: 500 ppm
Denmark	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	N-Heptane	142-82-5	TWA: 200 ppm (820 mg/m ³)
Finland	Isobutane	75-28-5	8-hour TWA: 800 ppm (1900 mg/m ³)
	Isobutane	75-28-5	15-min Limit: 1000 ppm (2400 mg/m ³)
	Propane	74-98-6	TWA 8-hr: 1,500 mg/m ³ (800 ppm)
	Propane	74-98-6	STEL 15-min: 2,000 mg/m ³ (1,100 ppm)
	N-Heptane	142-82-5	8-hour limit: 300 ppm (1200 mg/m ³)
	N-Heptane	142-82-5	15-minute limit: 500 ppm (2100 mg/m ³)
Germany	Isobutane	75-28-5	8-hour TWA: 1000 ppm (2400 mg/m ³)
	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	N-Heptane	142-82-5	AGW limit value: 500 ppm (2100 mg/m ³)
	N-Heptane	142-82-5	AGW Short term (15 min) exposure limit: 500 ppm (2100 mg/m ³)
Italy	Isobutane	75-28-5	15-min. STEL: 1000 ppm
	N-Heptane	142-82-5	8-hour TWA: 500 ppm (2085 mg/m ³)
Greece	Propane	74-98-6	TWA 8-hr: 1,800 mg/m ³ (1,000 ppm)
	N-Heptane	142-82-5	8-hour TWA: 500 ppm (2000 mg/m ³)
	N-Heptane	142-82-5	15-minute STEL: 500 ppm (2000 mg/m ³)
Ireland	Propane	74-98-6	TWA 8-hr: 1,000 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	N-Heptane	142-82-5	8-hour OEL (TWA): 500 ppm (2085 mg/m ³)
Spain	Isobutane	75-28-5	8-hour daily exposure limit: 1000 ppm
	N-Heptane	142-82-5	8-hour daily exposure limit (VLA-ED): 500 ppm (2085 mg/m ³)
Croatia	N-Heptane	142-82-5	Maximum (8 hr) allowable concentration: 500 ppm (2085 mg/m ³)
Czech Republic	N-Heptane	142-82-5	8-hour TWA: 1000 mg/m ³
	N-Heptane	142-82-5	Ceiling limit (NPK-P): 2000 mg/m ³
Hungary	N-Heptane	142-82-5	8-hour TWA (ÁK Value): 2000 mg/m ³
	N-Heptane	142-82-5	60-minute STEL (CK value): 8000 mg/m ³
Malta	N-Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)
European Union	N-Heptane	142-82-5	IOEL threshold limit: 2085 mg/m ³ (500 ppm)
	N-Heptane	142-82-5	SCOEL 8-hour TWA: 500 ppm (2085 mg/m ³)
France	N-Heptane	142-82-5	Time weighted average (VME): 400 ppm (1668 mg/m ³)
	N-Heptane	142-82-5	Short term exposure limit: 500 ppm (2085 mg/m ³)
Netherlands	N-Heptane	142-82-5	Binding 8-hour TWA: 1200 mg/m ³
	N-Heptane	142-82-5	Binding STEL (15 min): 1600 mg/m ³
Sweden	N-Heptane	142-82-5	Level Limit Value (NGV): 200 ppm (800 mg/m ³)
	N-Heptane	142-82-5	Short Term Limit (KTV): 300 ppm (1200 mg/m ³)
United Kingdom	N-Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)
Luxembourg	N-Heptane	142-82-5	TWA: 500 ppm (2085 mg/m ³)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Not determined or not applicable.

Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls
Biological monitoring may also be appropriate for some substances

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor

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and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Wear appropriate clothing to prevent any possibility of skin contact.

Select glove material impermeable and resistant to the substance in compliance with European Standard EN 374 and/or EN 420. For continuous contact, we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Always seek advice from glove suppliers.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

Environmental exposure controls:

Select controls based on a risk assessment of local conditions.

See section 6 for information on accidental release measures.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Odor	Strong solvent
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	15.8°F (-9°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	0.724
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.

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Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

Prevent exposure to heat, sparks, flame and other sources of ignition.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

No data available.

Substance data:

Name	Result
N-Heptane	Causes skin irritation

Serious eye damage/irritation

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

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

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

Product data:

No data available.

Substance data: No data available.

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Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Light Aliphatic Naphtha	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

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

Product data: No data available.

Substance data:

Name	Result
Light Aliphatic Naphtha	The classification as a mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Reproductive Toxicity

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

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause drowsiness or dizziness

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

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Acute (short-term) toxicity

Assessment: Very toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
N-Heptane	LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h
	EC50 - Daphnia magna - 82.5 mg/L - 96 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

Product data: No data available.

Substance data: No data available.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations



13.1 Waste treatment methods

Relevant information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	UN1950
UN proper shipping name	Aerosols, flammable N-Heptane, Propane, Isobutane
UN transport hazard class(es)	2.1  
Packing group	None
Environmental hazards	Marine Pollutant N-Heptane
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	UN1950
UN proper shipping name	Aerosols, flammable N-Heptane, Propane, Isobutane

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UN transport hazard class(es)	2.1	 
Packing group	None	
Environmental hazards	Marine Pollutant N-Heptane	
Special precautions for user	None	

International Maritime Dangerous Goods (IMDG)

UN number	UN1950	
UN proper shipping name	Aerosols, flammable N-Heptane, Propane, Isobutane	
UN transport hazard class(es)	2.1	 
Packing group	None	
Environmental hazards	Marine Pollutant N-Heptane	
Special precautions for user	None	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1950	
UN proper shipping name	Aerosols, flammable N-Heptane, Propane, Isobutane	
UN transport hazard class(es)	2.1	 
Packing group	None	
Environmental hazards	Marine Pollutant N-Heptane	
Special precautions for user	None	

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS):

64742-89-8	Light Aliphatic Naphtha	Listed
142-82-5	N-Heptane	Listed
74-98-6	Propane	Listed
75-28-5	Isobutane	Listed

REACH SVHC candidate list: Not determined.

REACH SVHC Authorizations: Not determined.

REACH Restriction: Not determined.

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Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance): Not determined.

Other regulations

Germany MAK: N-Heptane: 8-hour TWA: 500 ppm (2100 mg/m³), Propane: TWA 8-hr: 1,800 mg/m³ (1,000 ppm), TWA 8-hr: 1,800 mg/m³ (1,000 ppm)

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes:

Not applicable.

Abbreviations and Acronyms: None

Classification procedure:

Classification according to Regulation (EC) No1278/2008 (CLP)	Method Used
Flammable aerosols, category 1	Calculation method
Skin irritation, category 2	Calculation method
Specific target organ toxicity - single exposure, category 3, central nervous system	Calculation method
Aspiration hazard, category 1	Expert judgement
Chronic aquatic hazard, category 1	Calculation method
Acute aquatic hazard, category 1	Calculation method

Summary of classification in section 3:

Asp. Tox. 1; H304	Aspiration hazard, category 1
Skin Irrit. 2 ; H315	Skin irritation, category 2
Stot SE 3; H336	Specific target organ toxicity - single exposure, category 3, central nervous system
Flam. Liq. 2; H225	Flammable liquids, category 2
Aquatic Acute 1; H400	Acute aquatic hazard, category 1
Aquatic Chronic 1; H410	Chronic aquatic hazard, category 1
Press. Gas; H280	Compressed gases

Summary of hazard statements in section 3:

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H225	Highly flammable liquid and vapour
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H280	Contains gas under pressure; may explode if heated

Disclaimer:

This product has been classified in accordance with EC 1272/2008 (CLP) and EC 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-4-0

HMIS: 2-4-0

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End of Safety Data Sheet