



Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH)

Initial preparation date: 05.01.2018

Revision date: 08.11.2020

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Truflex/Pang Bead Repair Sealer

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

1.1 Product identifier

Product Name: Truflex/Pang Bead Repair Sealer

Product code: B77F/QT, B77F/55GAL

Additional information: Rev. 4

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

Relevant identified uses: Rubber adhesive

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

www.tech-international.com

Supplier:

European Union

Tech International Europe

Koeybleuken 16

2300 Turnhout, Belgium

00 32 1442 3103

techeurope@trc4r.com

1.4 Emergency telephone number:

European Union

CHEMTREC

Brussels +(32) - 28083237

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Flammable liquids, category 2

Skin irritation, category 2

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

Chronic aquatic hazard, category 2

Hazard-determining components of labeling:

Heptane

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash skin thoroughly after handling.
- 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.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use agents recommended in Section 5 to extinguish.
- P391 Collect spillage.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/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) No. 1272/2008 (CLP) | Weight % |
|--|--|--|----------|
| CAS number: 64742-49-0 EC number: 265-151-9 REACH number: 01-2119475515-33-0015 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Stot SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Skin Irrit. 2 ; H315 Flam. Liq. 2; H225 | 80-90 |
| CAS number: 142-82-5 EC number: 205-563-8 | 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 | <4 |
| CAS number: 1333-86-4 EC number: 215-609-9 | Carbon Black | Not classified | 1.5-3 |
| CAS number: 68476-34-6 EC number: 270-676-1 | Diesel Fuel No. 2 | Carc. 2; H351 | <0.1 |

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Additional information:

Carbon black is classified as a carcinogen only in its respirable form. Since the carbon black in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance

Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

Following skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

Following eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Product is highly flammable. Exposure to sources of ignition may cause physical injury
Skin contact may result in redness, pain, burning and inflammation
Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness

Delayed symptoms and effects:

Overexposure via inhalation requires urgent medical treatment.
Effects are dependent on exposure (dose, concentration, contact time).

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Treat symptomatically.

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:

Do not use a water stream as an extinguisher.

5.2 Special hazards arising from the substance or mixture:

Highly flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive

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mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages.

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Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

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 |
|-----------------------|--|------------|--|
| Poland | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | STEL: 1500 mg/m ³ |
| | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | TWA: 500 mg/m ³ |
| | Heptane | 142-82-5 | 8-hour TWA (NDS): 1200 mg/m ³ |
| | Heptane | 142-82-5 | 15-minute STEL (NDSCh): 2000 mg/m ³ |
| | Carbon Black | 1333-86-4 | Dz.U.Poz. 817/2014, Annex 1: TWA (NDS) 4.0 mg/m ³ (8 hr) |
| Belgium | Diesel Fuel No. 2 | 68476-34-6 | 8-hour TWA: 100 mg/m ³ |
| | Carbon Black | 1333-86-4 | Exposure Limit Value: TWA 3.5 mg/m ³ (8 hr) |
| | Heptane | 142-82-5 | 8-hour TWA: 400 ppm (1664 mg/m ³) |
| | Heptane | 142-82-5 | 15-minute STEL: 500 ppm (2085 mg/m ³) |
| Ireland | Diesel Fuel No. 2 | 68476-34-6 | 8-hour OEL (TWA): 100 mg/m ³ |
| | Carbon Black | 1333-86-4 | 2016 Code of Practice for Chemical Agents Regulations 2001: TWA 3.0 mg/m ³ (8 hr) OEL |
| | Heptane | 142-82-5 | 8-hour OEL (TWA): 500 ppm (2085 mg/m ³) |
| Italy | Diesel Fuel No. 2 | 68476-34-6 | 8-hour TWA: 100 mg/m ³ (as total hydrocarbons, inhalable fraction and vapor) |
| | Carbon Black | 1333-86-4 | Legislative Decree n.81: TWA 3.0 mg/m ³ (8 hr) |
| | Heptane | 142-82-5 | 8-hour TWA: 500 ppm (2085 mg/m ³) |
| Bulgaria | Heptane | 142-82-5 | TWA: 1600 mg/m ³ |
| Portugal | Diesel Fuel No. 2 | 68476-34-6 | 8-hour Exposure Limit: 100 mg/m ³ |
| | Carbon Black | 1333-86-4 | VLE: 3.5 mg/m ³ (8 hr) |

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| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|--------------|------------|--|
| | Heptane | 142-82-5 | Decree-Law No. 24/2012 8-hour TWA: 500 ppm (2085 mg/m ³) |
| | Heptane | 142-82-5 | NP 1796-2007 8-hour exposure limit: 400 ppm |
| | Heptane | 142-82-5 | NP 1796-2007 Short-term exposure limit: 500 ppm |
| Croatia | Heptane | 142-82-5 | Maximum (8 hr) allowable concentration: 500 ppm (2085 mg/m ³) |
| | Carbon Black | 1333-86-4 | Dangerous Substances Exposure Limit Values in the Workplace: 3.5 mg/m ³ (8hr); 7.0 mg/m ³ (15 min) |
| Czech Republic | Heptane | 142-82-5 | 8-hour TWA: 1000 mg/m ³ |
| | Heptane | 142-82-5 | Ceiling limit (NPK-P): 2000 mg/m ³ |
| | Carbon Black | 1333-86-4 | Government Decree 361/2007 Sb.: TWA 2.0 mg/m ³ (8 hr) |
| Estonia | Heptane | 142-82-5 | 8-hour TWA: 500 ppm (2085 mg/m ³) |
| Hungary | Heptane | 142-82-5 | 8-hour TWA (ÁK Value): 2000 mg/m ³ |
| | Heptane | 142-82-5 | 60-minute STEL (CK value): 8000 mg/m ³ |
| Latvia | Heptane | 142-82-5 | 8-hour TWA: 350 mg/m ³ (85 ppm) |
| | Heptane | 142-82-5 | 15-minute STEL: 2085 mg/m ³ (500 ppm) |
| Lithuania | Heptane | 142-82-5 | 8-hour TWA: 2085 mg/m ³ (500 ppm) |
| | Heptane | 142-82-5 | 15-minute STEL: 3128 mg/m ³ (750 ppm) |
| Malta | Heptane | 142-82-5 | TWA: 500 ppm (2085 mg/m ³) |
| Cyprus | Carbon Black | 1333-86-4 | Control of factory atmosphere and dangerous substances in factories regulation: TWA 3.5 mg/m ³ (8 hr) |
| Romania | Heptane | 142-82-5 | 8-hour TWA: 2085 mg/m ³ (500 ppm) |
| Slovakia | Heptane | 142-82-5 | 8-hour TWA (NPEL): 500 ppm (2085 mg/m ³) |
| | Carbon Black | 1333-86-4 | Regulation No. 355.2006 concerning protection of workers exposed to chemical agents, Annex 1: TWA (NPEL) 2.0 mg/m ³ |
| Slovenia | Heptane | 142-82-5 | 8-hour TWA: 2085 mg/m ³ (500 ppm) |
| European Union | Heptane | 142-82-5 | IOEL threshold limit: 2085 mg/m ³ (500 ppm) |
| | Heptane | 142-82-5 | SCOEL 8-hour TWA: 500 ppm (2085 mg/m ³) |

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| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|--------------|------------|---|
| Denmark | Carbon Black | 1333-86-4 | Exposure Limits for Substances & Materials: TWA 3.5 mg/m ³ |
| | Heptane | 142-82-5 | TWA: 200 ppm (820 mg/m ³) |
| Finland | Carbon Black | 1333-86-4 | Workplace Exposure Limits: 3.5 mg/m ³ (8 hr); 7.0 mg/m ³ (15 min) |
| | Heptane | 142-82-5 | 8-hour limit: 300 ppm (1200 mg/m ³) |
| | Heptane | 142-82-5 | 15-minute limit: 500 ppm (2100 mg/m ³) |
| France | Carbon Black | 1333-86-4 | Threshold Limit Values (VLEP): Time weighted average (VME) 3.5 mg/m ³ |
| | Heptane | 142-82-5 | Time weighted average (VME): 400 ppm (1668 mg/m ³) |
| | Heptane | 142-82-5 | Short term exposure limit: 500 ppm (2085 mg/m ³) |
| Greece | Carbon Black | 1333-86-4 | Decree 307/1986: TWA 3.5mg/m ³ (8 hr); STEL 7.0 mg/m ³ (15 min) |
| | Heptane | 142-82-5 | 8-hour TWA:: 500 ppm (2000 mg/m ³) |
| | Heptane | 142-82-5 | 15-minute STEL: 500 ppm (2000 mg/m ³) |
| Spain | Carbon Black | 1333-86-4 | VLA: VLA_ED 3.5 mg/m ³ (8 hr) |
| | Heptane | 142-82-5 | 8-hour daily exposure limit (VLA-ED): 500 ppm (2085 mg/m ³) |
| United Kingdom | Carbon Black | 1333-86-4 | WEL: TWA 3.5 mg/m ³ ; STEL 7.0 mg/m ³ |
| | Heptane | 142-82-5 | TWA: 500 ppm (2085 mg/m ³) |
| Germany | Heptane | 142-82-5 | AGW limit value: 500 ppm (2100 mg/m ³) |
| | Heptane | 142-82-5 | AGW Short term (15 min) exposure limit: 500 ppm (2100 mg/m ³) |
| Netherlands | Heptane | 142-82-5 | Binding 8-hour TWA: 1200 mg/m ³ |
| | Heptane | 142-82-5 | Binding STEL (15 min): 1600 mg/m ³ |
| Sweden | Heptane | 142-82-5 | Level Limit Value (NGV): 200 ppm (800 mg/m ³) |
| | Heptane | 142-82-5 | Short Term Limit (KTV): 300 ppm (1200 mg/m ³) |
| Luxembourg | Heptane | 142-82-5 | TWA: 500 ppm (2085 mg/m ³) |
| Austria | Heptane | 142-82-5 | TWA: 2000 mg/m ³ (500 ppm) |
| | Heptane | 142-82-5 | STEL: 8000 mg/m ³ (2000 ppm) |

Biological limit values:

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

Derived No Effect Level (DNEL):

Not determined or not applicable.

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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 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:

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 nitrile 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 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.

Use a European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the European Standard EN149.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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 | Black Viscous 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 | 190 °F (88 °C) |
| Flash point (closed cup) | 15 °F (-9 °C) |
| Evaporation rate | >1 (n-BuAC=1) |

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| | |
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| Flammability (solid, gas) | Not determined or not available. |
| Upper flammability/explosive limit | 6.7% (V) |
| Lower flammability/explosive limit | 1.2% (V) |
| Vapor pressure | 119 mmHg at 20 °C (68 °F) |
| Vapor density | Not determined or not available. |
| Density | Not determined or not available. |
| Relative density | 0.73 g/cm ³ (6.22 lbs./gal) at 20 °C (68 °F) |
| Solubilities | Not determined or not available. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| 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 | 15000 |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

9.2 Other information

| | |
|-----|---------|
| VOC | 613 g/L |
|-----|---------|

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:

Excess heat, ignition source or flames.

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:

| Name | Route | Result |
|--|------------|-------------------------------------|
| Heptane | inhalation | LC50 Rat: > 29.29 mg/L (4 hr) |
| | oral | LD50 Rat: > 5000 mg/kg |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | oral | LD50 Rat: > 5000 mg/kg |
| | dermal | LD50 Rabbit: > 2000 mg/kg |
| | inhalation | LC50 Rat: > 4.42 mg/L (4 hr, vapor) |

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Skin corrosion/irritation

Assessment:

Causes skin irritation

Product data:

No data available.

Substance data:

| Name | Result |
|--|-------------------------|
| Heptane | Causes skin irritation. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 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.

Carcinogenicity

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

Product data: No data available.

Substance data:

| Name | Species | Result |
|--|----------------|--|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Not applicable | The carcinogenic classification applies to naphtha streams containing >0.1% Benzene. |
| Carbon Black | Not applicable | The IARC carcinogenic classification and California Proposition 65 Warning only apply to airborne, unbound particles of respirable size of Carbon Black. |

International Agency for Research on Cancer (IARC):

| Name | Classification |
|-------------------|--|
| Diesel Fuel No. 2 | Group 2B - Possibly carcinogenic to humans |

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 |
|--|---|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | The mutagenic classification applies to naphtha streams containing >0.1% Benzene. |

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Reproductive Toxicity

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

Product data:

No data available.

Substance data:

| Name | Result |
|--|--|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | The classification as a reproductive toxicant only applies when the naphtha stream contains >3% toluene and/or n-hexane. |

Specific target organ toxicity (single exposure)

Assessment:

May cause drowsiness or dizziness

Product data:

No data available.

Substance data:

| Name | Result |
|--|------------------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | May cause drowsiness or dizziness. |
| Heptane | May cause drowsiness or dizziness. |

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

Product data:

No data available.

Substance data:

| Name | Result |
|--|---|
| Heptane | May be fatal if swallowed and enters airways. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | May be fatal if swallowed and enters airways. |

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment:

Toxic to aquatic life

Product data: No data available.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH)

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Substance data:

| Name | Result |
|--|---|
| Heptane | LC50 - Carassius auratus (goldfish) - 4 mg/l - 24.0 h |
| | EC50 - Daphnia magna - 82.5 mg/L - 96 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | ErC50 Selenastrum capricornutum: 3.1 mg/L (72 hr) |
| | EC50 Daphnia magna: 4.5 mg/L (48 hr) |

Chronic (long-term) toxicity

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

Product data: No data available.

Substance data:

| Name | Result |
|--|---------------------------------------|
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | EC50 Daphnia magna: 10 mg/L (10 days) |

12.2 Persistence and degradability

Product data: No data available.

Substance data:

| Name | Result |
|--|--|
| Heptane | Readily biodegradable in water. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance (UVCB). |

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

| Name | Result |
|--|--|
| Heptane | Calculated BCF: 552 (Not expected to bioaccumulate). |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance (UVCB). |

12.4 Mobility in soil

Product data: No data available.

Substance data:

| Name | Result |
|---------|-----------------------------------|
| Heptane | Moderately Mobile (log Koc: 2.38) |

12.5 Results of PBT and vPvB assessment

PBT assessment:

| | |
|--|----------------------------|
| Heptane | This substance is not PBT. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | This substance is not PBT. |

vPvB assessment:

| | |
|--|-----------------------------|
| Heptane | This substance is not vPvB. |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | This substance is not vPvB. |

12.6 Other adverse effects: No data available.

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH)

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SECTION 13: Disposal considerations



13.1 Waste treatment methods

Relevant information:



Consult with EU Directive 2008/98/EC for the classifications of hazardous waste prior to disposal. Furthermore, consult with your regional, national or European waste requirements or guidelines, if applicable, to ensure compliance. Final decisions on the appropriate waste management method, in line with regional, national and European legislation, remains the responsibility of the waste treatment operator

SECTION 14: Transport information



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

| | |
|-------------------------------|---|
| UN number | UN1133 |
| UN proper shipping name | Adhesives |
| UN transport hazard class(es) | 3   |
| Packing group | II |
| Environmental hazards | Marine Pollutant (Heptane and Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) |
| Special precautions for user | None |

International Carriage of Dangerous Goods by Inland Waterways (ADN)

| | |
|-------------------------------|---|
| UN number | UN1133 |
| UN proper shipping name | Adhesives |
| UN transport hazard class(es) | 3   |
| Packing group | II |
| Environmental hazards | Marine Pollutant (Heptane and Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|---|
| UN number | UN1133 |
| UN proper shipping name | Adhesives |
| UN transport hazard class(es) | 3   |
| Packing group | II |
| Environmental hazards | Marine Pollutant (Heptane and Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) |
| Special precautions for user | None |

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH)



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

| | |
|-------------------------------|---|
| UN number | UN1133 |
| UN proper shipping name | Adhesives |
| UN transport hazard class(es) | 3   |
| Packing group | II |
| Environmental hazards | Marine Pollutant (Heptane and Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics) |
| 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):

| | | |
|------------|--|--------|
| 68476-34-6 | Diesel Fuel No. 2 | Listed |
| 64742-49-0 | Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | Listed |
| 1333-86-4 | Carbon Black | Listed |
| 142-82-5 | Heptane | Listed |

REACH SVHC candidate list: None of the ingredients are listed.

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

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

Water hazard class (WGK) (Substance):

| Ingredient Name | CAS | Class |
|--|------------|-------------------------|
| Heptane | 142-82-5 | 2 |
| Carbon Black | 1333-86-4 | Non-hazardous to water. |
| Diesel Fuel No. 2 | 68476-34-6 | 2 |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | 64742-49-0 | 2 |

Other regulations

Germany TA Luft: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics: Class I; Mass flow: 0.1 kg/hr;
Maximum Concentration Allowed if Emissions Exceed Base Rate: 20 mg/m³

Germany MAK: Heptane: 8-hour TWA: 500 ppm (2100 mg/m³)

15.2 Chemical Safety Assessment

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

Safety Data Sheet

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SECTION 16: Other information

Indication of changes:

August 11, 2020: Reviewed/updated to comply with the 12th and 14th Adaptations to Technical Progress (ATP) of the CLP Regulation. Composition change, consequently changing the occupational exposure limits and resulting in a classification change

Abbreviations and Acronyms: None

Classification procedure:

| Classification according to Regulation (EC) No. 1272/2008 (CLP) | Method Used |
|--|--------------------|
| Flammable liquids, category 2 | Calculation method |
| Skin irritation, category 2 | Calculation method |
| Specific target organ toxicity - single exposure, category 3, central nervous system | Calculation method |
| Chronic aquatic hazard, category 2 | Calculation method |

Summary of classification(s) in section 3:

| | |
|-------------------------|--|
| Stot SE 3; H336 | Specific target organ toxicity - single exposure, category 3, central nervous system |
| Asp. Tox. 1; H304 | Aspiration hazard, category 1 |
| Aquatic Chronic 2; H411 | Chronic aquatic hazard, category 2 |
| Skin Irrit. 2; H315 | Skin irritation, category 2 |
| 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 |
| Carc. 2; H351 | Carcinogenicity, category 2 |

Summary of hazard statements in section 3:

| | |
|------|--|
| H336 | May cause drowsiness or dizziness |
| H304 | May be fatal if swallowed and enters airways |
| H411 | Toxic to aquatic life with long lasting effects |
| H315 | Causes skin irritation |
| H225 | Highly flammable liquid and vapour |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H351 | Suspected of causing cancer |

Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and EC No. 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.

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End of Safety Data Sheet