

Safety data sheet

According (EU) 2020/878, Annex B amending Regulation (EC) No 1907/2006

Revision date: 06.10.2023

v. 2

Date of issue: 06.10.2023

Trade name: Penetrant RC-50

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Hazard statements

H304 May be fatal if swallowed and enters airways.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P301+P310 IF SWALLOWED: Immediately call a doctor.
 P331 Do NOT induce vomiting.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local regulations.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards See Chapters 3 and 15 for details.**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: 64742-47-8 EC number: 918-973-3 Reg.nr.: 01-2119458871-30	Blend of highly refined mineral oil ⚠ Asp. Tox. 1, H304, EUH066	25-50%
CAS: 64742-55-8 EC number: 920-114-2 Reg.nr.: 01-2119977122-39	Blend of highly refined mineral oil ⚠ Asp. Tox. 1, H304, EUH066	25-50%
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28	diisononyl phthalate substance with a Community workplace exposure limit	10-25%
CAS: 64742-94-5 EC number: 919-284-0 Reg.nr.: 01-2119463588-24	Solvent naphtha (petroleum), heavy arom. ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336, EUH066	2,5-10%
CAS: 91-20-3 EINECS: 202-049-5 Reg.nr.: 01-2119561346-37	naphthalene ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≤1%

Additional information:

64742-55-8 Blend of highly refined mineral oil: Note L is applicable for this product:

The classification as a carcinogen need not apply, because the substance contains less than 3 % DMSO extract as measured by IP 346.

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; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
 Remove contaminated clothing.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately.

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:**
 - Water haze
 - Foam
 - ABC powder
- **For safety reasons unsuitable extinguishing agents:** Water spray
- **5.2 Special hazards arising from the substance or mixture**
 - Carbon monoxide and carbon dioxide
 - No further relevant information available.
- **5.3 Advice for firefighters**
- **Special protective equipment for fire-fighters:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation
- **6.2 Environmental precautions:**
 - Do not allow product to reach sewage system or any water course.
 - 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:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to section 13.
- **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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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:**

CAS: 28553-12-0 diisononyl phthalate	
OEL	Long-term value: 5 mg/m ³
CAS: 91-20-3 naphthalene	
OEL	Long-term value: 50 mg/m ³ , 10 ppm
	IOELV

- **Regulatory information** OEL: 2021 CoP for the Safety, Health and Welfare at Work
- **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

- **Respiratory protection:**
Respiratory protection:
When using a liquid based on organic compound:
 - Recommended for organic vapour (type A)
 When using a dry powder:
 - Recommended for particulate filters (type P)

- **Hand protection**



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Natural rubber, NR
- **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.
- **Eye/face protection**



Safety glasses

- **Body protection:** Use protective suit.

SECTION 9: Physical and chemical properties

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

- **General Information**

· Physical state	Fluid
· Colour:	Yellow fluorescent
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	240 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	0,1 Vol %
· Upper:	7 Vol %
· Flash point:	>93 °C (ASTM D-93)
· Auto-ignition temperature:	>230 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	4,55 mm ² /s (ASTM D-445)
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	2 hPa
· Density and/or relative density	
· Density at 20 °C:	0,884 g/cm ³ (ASTM D-1298)
· Relative density	0,872

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· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Liquid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	62,5 %
· VOC (1999/13/EG)	6,70 %
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	not applicable
· Flammable gases	not applicable
· Aerosols	not applicable
· Oxidising gases	not applicable
· Gases under pressure	not applicable
· Flammable liquids	not applicable
· Flammable solids	not applicable
· Self-reactive substances and mixtures	not applicable
· Pyrophoric liquids	not applicable
· Pyrophoric solids	not applicable
· Self-heating substances and mixtures	not applicable
· Substances and mixtures, which emit flammable gases in contact with water	not applicable
· Oxidising liquids	not applicable
· Oxidising solids	not applicable
· Organic peroxides	not applicable
· Corrosive to metals	not applicable
· Desensitised explosives	not applicable

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Stable at environment temperature.
- **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**
Information on hazardous ingredients
Based on available data, the classification criteria are not met.

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

CAS: 64742-47-8 Blend of highly refined mineral oil

Oral LD50 >2.000 mg/kg (rat)

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		>2.000 mg/kg (rabbit)
CAS: 64742-55-8 Blend of highly refined mineral oil		
Oral	LD50	>2.000 mg/kg (rat)
		>2.000 mg/kg (rabbit)

- **Skin corrosion/irritation**

repeated exposure may cause skin dryness or cracking

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

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

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

- **Aspiration hazard** May be fatal if swallowed and enters airways.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

CAS: 115-86-6 triphenyl phosphate

List II

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

Information on hazardous ingredients

CAS: 64742-47-8 Blend of highly refined mineral oil		
LC50/ 96 h		>1.000 mg/l (Fish)
EC50/ 48 h		>1.000 mg/l (daphnia)
IC50 /72 h		>1.000 mg/l (Algae)

- **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** For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse effects**

- **Remark:** Harmful to 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.

Harmful to 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/ unused products

Collect all waste in suitable and labelled containers and dispose according to local legislation.

- **European waste catalogue** 07 07 04

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- **Uncleaned packaging:**
- **Recommendation:**
Waste / used products
Waste products and empty packages dispose of in accordance with local regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	not applicable
· 14.2 UN proper shipping name	
· ADR, IMDG, IATA	not applicable
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	not applicable
· 14.4 Packing group	
· ADR, IMDG, IATA	not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	not applicable

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.
· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 52a
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
· REGULATION (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

European regulation (REACH) requires that in paragraph 16 all H sentences dealing with raw materials appearing in paragraph 2 and 3 be written. This regulation states which sentences will finally be written on labels (paragraph 3) depending on the respective concentration of every raw material in the preparation. That's why some or all of the sentences or signs shown in paragraph 16 may not be written on the label. BabbCo complies with the law. Any MSDS with the H sentences of the raw material not shown in the paragraph 16 does not comply with regulation.

Relevant phrases

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 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.
 EUH066 Repeated exposure may cause skin dryness or cracking.

Prepared by NDT Europa BV**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)
 ICAO: International Civil Aviation Organisation
 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
 Acute Tox. 4: Acute toxicity – Category 4
 Carc. 2: Carcinogenicity – 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

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