

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

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

1.1 Product identifier

Trade name: **Penetrant RC-50**

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 Penetrant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Supplier:

BabbCo SA	SherwinBabbCo
15, rue des Frères Lumière	
Z.I. des EBISOIRES	
78370 PLAISIR (France)	
Tel: +33 (0)1.30.80.81.82	Tel: +33 (0)1.30.80.81.98
Fax: +33 (0)1.30.80.81.99	
e-mail: babb-co@orange.fr	e-mail: SherwinBabbco@orange.fr
http: //www.babbco.fr	

Manufacturer:

NDT Europa BV
damsluisweg 77
1332 EB almere / the netherlands
phone +31 (0) 36 5495000
fax +31 (0) 36 5495011
e-mail: info@ndt-europa.nl
http://www.ndt-europa.nl

Further information obtainable from: Product safety department

1.4 Emergency telephone number:

Tel: +33 (0)1.40.05.48.48 (Centre anti-poison de Paris)

Tel: +33 (0)1.30.80.81.98

Additional information:

Attention Medical Authorities,

In accordance with law, to the best of its knowledge, and in good faith, SherwinBabb Co herewith indicates known, or possible, risks arising from the use of the product described below.

There may be similar products on the market for which the suppliers have not indicated certain risks.

Suppliers are responsible for completing SDS forms in a manner that:

- does not give a product's user a false sense of security concerning the product's risks, or which,
- misrepresents the product in a manner that could be construed as unfair competition, or which,
- could lead to legal proceedings against the supplier.

Please contact us to answer any questions, or for additional information, concerning this document, or the product(s) described.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful 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



GHS08

Signal word Danger

Hazard-determining components of labelling:

Blend of highly refined mineral oil

(Contd. on page 2)

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

Trade name: Penetrant RC-50

(Contd. of page 1)

Hazard statements

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

Precautionary statements

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 Chemical characterisation: 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	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	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	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.

SECTION 5: Firefighting measures

5.1 Extinguishing media**Suitable extinguishing agents:**

Water haze

(Contd. on page 3)

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

Trade name: Penetrant RC-50

(Contd. of page 2)

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:**

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 item 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:** Keep container tightly sealed.

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

* SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

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

CAS: 28553-12-0 diisononyl phthalateWEL Long-term value: 5 mg/m³

- **Regulatory information** WEL: EH40/2018

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

- **8.2 Exposure controls**

- **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)

(Contd. on page 4)

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

Trade name: Penetrant RC-50

(Contd. of page 3)

Protection of hands:

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 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**

· **Appearance:**

· **Form:** Liquid

· **Colour:** Yellow fluorescent

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** 240 °C

· **Flash point:** >93 °C (ASTM D-93)

· **Flammability (solid, gas):** Not applicable.

· **Auto-ignition temperature:** >230 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** 0.1 Vol %

· **Upper:** 7 Vol %

· **Vapour pressure at 20 °C:** 2 hPa

· **Density at 20 °C:** 0.884 g/cm³ (ASTM D-1298)

· **Relative density** 0.872

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic at 40 °C:** 4.55 mm²/s (ASTM D-445)

(Contd. on page 5)

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

Trade name: Penetrant RC-50

(Contd. of page 4)

Solvent content:	
Organic solvents:	62.3 %
VOC (1999/13/EG)	6.48 %
9.2 Other information	No further relevant information available.

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 toxicological effects**
- **Acute toxicity** Information on hazardous ingredients

LD/LC50 values relevant for classification:

CAS: 91-20-3 naphthalene

Dermal	LD50	>2,500 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** repeated exposure may cause skin dryness or cracking
- **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.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **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.

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 (Algea)

CAS: 91-20-3 naphthalene

LC50/ 96 h	0.5 mg/l (Fish)
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- **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.
- **Ecotoxic effects:**
- **Remark:** Harmful to fish

(Contd. on page 6)

GB

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

Date of issue: 06.02.2015

Trade name: Penetrant RC-50

(Contd. of page 5)

- **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

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

* 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

- **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**

- **ADR, IMDG, IATA**

not applicable

- **14.2 UN proper shipping name**

- **ADR, IMDG, IATA**

not applicable

- **14.3 Transport hazard class(es)**

- **ADR**

- **Class**

not applicable

- **IMDG, IATA**

- **Class**

- **Label**

not applicable

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- **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 Transport in bulk according to Annex II of Marpol and the IBC Code**

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**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 7)

Safety data sheet

According 830/2015 amending Regulation (EC) No 1907/2006

Revision date: 28.03.2019

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Trade name: Penetrant RC-50

(Contd. of page 6)

- **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
- **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. 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 shows 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.

· **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 européen sur le transport 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

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