

ROYAL  TALENS
Safety Data Sheet

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MSDS for #00417 - REMBRANDT OIL CLR's Hazard Communication Standard 29CFR 1910.1200

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Printing date 03/27/2015

Reviewed on 03/26/2015

1 Identification

- **Trade name:** REMBRANDT OILCOLOURS, all colours except 103, 104, 105, 117, 118, 119
- **Article number:** 0100.0000
- **Relevant identified uses of the substance or mixture** Artists' colour
- **Manufacturer/Supplier:**
Royal Talens
P.O.Box 4, Apeldoorn, The Netherlands 7300AA
- **USA-distributor:**
Canson, Inc.
21 Industrial Drive, South Hadley MA 01075
tel. +1- 413-538-9250
- **Information department:**
Regulatory Affairs
safety@talens.com
- **Emergency telephone number:** For further health information call a poison control center.

2 Hazard(s) identification

- **Hazard warning in accordance with US Labeling of Hazardous Art Materials Act / Federal Hazardous Substances Act:**
- **Hazard statements**
For color 515, 539, 610 and 682: WARNING: MAY BE HARMFUL IF SWALLOWED. EXPOSURE MAY CAUSE ALLERGIC REACTIONS. EXPOSURE MAY CAUSE DAMAGE TO THE HEART. CONTAINS: SOLUBLE COBALT. PRECAUTIONS: Avoid prolonged contact with skin. Do not spray apply. Wash hands immediately after use. When using do not eat, drink or smoke. KEEP OUT OF REACH OF CHILDREN. FIRST AID: If swallowed, get prompt medical attention.

3 Composition/information on ingredients

- **Dangerous components:** For color 515, 539, 610 and 682: Soluble Cobalt (< 1%)

4 First-aid measures

- **After inhalation:** Not applicable.
- **After skin contact:** Clean with water and soap.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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7 Handling and storage

- **Precautions for safe handling:** No special measures required.

8 Exposure controls/personal protection

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Eye protection:** Not required.

9 Physical and chemical properties

- **Appearance:**
 - Form:** Fluid
 - Color:** According to product specification
- **Odor:** Characteristic
- **Change in condition**
 - Melting point/Melting range:** Not determined.
 - Boiling point/Boiling range:** > 99 °C (> 210 °F)
- **Flash point:** > 99 °C (> 210 °F)
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Density:** 1,1 - 2,3 g/cm³
- **Solubility in / Miscibility with Water:** Not miscible

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information

- **Carcinogenic categories:**
 - **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
 - **NTP (National Toxicology Program)**
None of the ingredients is listed.
 - **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

12 Ecological information

- **General notes:** Not known to be hazardous to water.

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13 Disposal considerations**· Recommendation:**

Must not be disposed together with household garbage. Disposal must be made according to official regulations. Do not allow product to reach sewage system.

14 Transport information

- **Transport hazard class(es)** None.
- **Packing group** None.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

16 Other information

- In conformance with the Californian Safe Drinking Water and Toxic Enforcement Act (Proposition 65) the following labeling is applicable:

For color 242, 513, 515, 517, 534, 539, 586, 610 and 682:

WARNING: This product contains a chemical known to the state of California to cause cancer.

For color 207, 208, 210, 211, 271, 303, 306, 309 and 314:

WARNING: DO NOT SPRAY APPLY-This product contains cadmium, a chemical known to the state of California to cause cancer by means of inhalation.

- All colors in this Rembrandt Oilcolours productline, except color 207, 208, 210, 211, 242, 271, 303, 306, 309, 314, 513, 515, 517, 534, 539, 586, 610 and 682, are qualified to bear the AP (approved product) Seal of the Art & Creative Materials Institute, Inc. This means that they are certified in a program of toxicological evaluation by medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. Certified by ACMI to be labeled in accordance with the chronic hazard labeling standard, ASTM D 4236 and Federal law, P.L. 100-695.

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 03/27/2015 / -
- **Abbreviations and acronyms:**
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)

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1 Identification

- **Trade name:** **REMBRANDT OILCOLOUR, 118 TITANIUM WHITE (LINSEED OIL)**
- **Article number:** 0100.1180
- **Relevant identified uses of the substance or mixture** Artists' colour
- **Manufacturer/Supplier:**
Royal Talens
P.O.Box 4, Apeldoorn, The Netherlands 7300AA
- **USA-distributor:**
Canson, Inc.
21 Industrial Drive, South Hadley MA 01075
tel. +1- 413-538-9250
- **Information department:**
Regulatory Affairs
safety@talens.com
- **Emergency telephone number:** For further health information call a poison control center.

2 Hazard(s) identification

- **Hazard warning in accordance with US Labeling of Hazardous Art Materials Act / Federal Hazardous Substances Act:**
- **Hazard statements** Void

3 Composition/information on ingredients· **Dangerous components:**

1314-13-2 zinc oxide	1-10%
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4 First-aid measures

- **After inhalation:** Not applicable.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Precautions for safe handling:** No special precautions are necessary if used correctly.

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8 Exposure controls/personal protection

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Eye protection:** Not required.

9 Physical and chemical properties

- **Appearance:**
 - Form:** Fluid
 - Color:** According to product specification
- **Odor:** Characteristic
- **Change in condition**
 - Melting point/Melting range:** Not determined.
 - Boiling point/Boiling range:** > 200 °C (> 392 °F)
- **Flash point:** > 100 °C (> 212 °F)
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Density at 20 °C (68 °F):** 2.05 g/cm³ (17.107 lbs/gal)
- **Solubility in / Miscibility with Water:** Not miscible

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

1314-13-2 zinc oxide	
Oral	LD50 > 5000 mg/kg (rat)
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **General notes:**
 - Do not allow product to reach ground water, water course or sewage system.

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The product contains materials that are harmful to the environment.

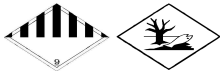
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13 Disposal considerations

- **Recommendation:**
Must not be disposed together with household garbage. Disposal must be made according to official regulations. Do not allow product to reach sewage system.

14 Transport information

- **Transport hazard class(es)**
- **DOT, ADR, IMDG, IATA**



- **Class** 9 Miscellaneous dangerous substances and articles
- **Label** 9

- **Packing group**
- **DOT, ADR, IMDG, IATA III**
- **Special marking (IATA):** Symbol (fish and tree)

- **UN "Model Regulation":** UN3082, Environmentally hazardous substances, liquid, n.o.s. (zinc oxide), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

16 Other information

- All colors in this Rembrandt Oilcolours productline, except color 207, 208, 210, 211, 242, 271, 303, 306, 309, 314, 513, 515, 517, 534, 539, 586, 610 and 682, are qualified to bear the AP (approved product) Seal of the Art & Creative Materials Institute, Inc. This means that they are certified in a program of toxicological evaluation by medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. Certified by ACMI to be labeled in accordance with the chronic hazard labeling standard, ASTM D 4236 and Federal law, P.L. 100-695.

- This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 03/27/2015 / -

Abbreviations and acronyms:

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent



LD50: Lethal dose, 50 percent

USA

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

- **Product identifier**
- **Trade name:** PAINTING MEDIUM 083
- **Article number:** 2400.0083
- **Relevant identified uses of the substance or mixture** medium for oilpaint
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Talens
P.O.Box 4
NL-7300 AA Apeldoorn Tel. +31 (0)55 5274700
- **Further information obtainable from:**
Regulatory Affairs
safety@talens.com
- **Emergency telephone number:**
Great Britain: National Poisons Information Service (Bermingham) tel. (44) (0) 1215074123
Ireland: National Poisons Information Centre (Dublin) tel. 35 3 18379966

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R10-66: Flammable. Repeated exposure may cause skin dryness or cracking.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling chemicals.
- **Code letter and hazard designation of product:**
 N Dangerous for the environment
- **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrodesulfurized heavy
Distillates (petroleum), hydrotreated light
- **Risk phrases:**
10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
- **Safety phrases:**
2 Keep out of the reach of children.
24 Avoid contact with skin.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.

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

3 Composition/information on ingredients

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

· **Dangerous components:**

CAS: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy Xn R65; N R51/53 R10-66-67	25-50%
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light Xn R65 R66	10-25%

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

4 First aid measures

- **Description of first aid measures**
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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GB

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- **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.

8 Exposure controls/personal protection

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**



If prolonged or repeated contact is likely, chemicalresistant gloves are recommended.

- **Material of gloves:** Nitrile rubber, NBR
- **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 if risk of splashes.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	175°C
- **Flash point:** 43°C
- **Ignition temperature:** 200°C
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**

Lower:	0.5 Vol %
Upper:	7.0 Vol %
- **Vapour pressure at 20°C:** 27 hPa
- **Density at 20°C:** 0.85 g/cm³
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Viscosity:**

Dynamic at 20°C:	9 mPas
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(Contd. on page 4)

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· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Sensitization:** No sensitizing effects known.

12 Ecological information






- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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(Contd. on page 5)


14 Transport information

· UN-Number · ADR, IMDG, IATA	UN1263
· UN proper shipping name · ADR · IMDG · IATA	1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS PAINT RELATED MATERIAL (TURPENTINE SUBSTITUTE) PAINT RELATED MATERIAL
· Transport hazard class(es) · ADR	
 	
· Class · Label	3 Flammable liquids. 3
· IMDG	
 	
· Class · Label	3 Flammable liquids. 3
· IATA	
	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrodesulfurized heavy Yes Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 30 F-E, S-E
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · ADR · Tunnel restriction code	D/E

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Observe the general safety regulations when handling chemicals.
- **Code letter and hazard designation of product:**

N Dangerous for the environment
- **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrodesulfurized heavy
Distillates (petroleum), hydrotreated light
- **Risk phrases:**
10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
66 Repeated exposure may cause skin dryness or cracking.
- **Safety phrases:**
2 Keep out of the reach of children.
24 Avoid contact with skin.
29 Do not empty into drains.
46 If swallowed, seek medical advice immediately and show this container or label.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
R10 Flammable.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

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

- **Product identifier**
- **Trade name:** ODOURLESS WHITE SPIRIT 089
- **Article number:** 2400.0089
- **Relevant identified uses of the substance or mixture** Solvent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Talens
P.O.Box 4
NL-7300 AA Apeldoorn Tel. +31 (0)55 5274700
- **Further information obtainable from:**
Regulatory Affairs
safety@talens.com
- **Emergency telephone number:**
Great Britain: National Poisons Information Service (Birmingham) tel. (44) (0) 1215074123
Ireland: National Poisons Information Centre (Dublin) tel. 35 3 18379966

2 Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

R53-66: May cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

- **Information concerning particular hazards for human and environment:**
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

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



GHS02



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Naphtha (petroleum), heavy alkylate
- **Hazard statements**
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H413 May cause long lasting harmful effects to aquatic life.

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EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.*
- P102 Keep out of reach of children.*
- P103 Read label before use.*
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.*
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.*
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P405 Store locked up.*
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

Other hazards

Results of PBT and vPvB assessment

- PBT:** Not applicable.
- vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description

64741-65-7 Naphtha (petroleum), heavy alkylate

Identification number(s)

EC number: 265-067-2

Index number: 649-275-00-4

4 First aid measures

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.
- After eye contact:** Rinse opened eye for several minutes under running water.
- After swallowing:** Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **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.

8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **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:** Not necessary if room is well-ventilated.
- **Protection of hands:**



If prolonged or repeated contact is likely, chemicalresistant gloves are recommended.

- **Material of gloves** Nitrile rubber, NBR
- **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 if risk of splashes.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Odourless
- **Change in condition**

Melting point/Melting range:	< -70°C
Boiling point/Boiling range:	> 34°C
- **Flash point:** 60°C
- **Ignition temperature:** 430°C
- **Danger of explosion:** Not determined.

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· Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.5 Vol %
· Vapour pressure at 20°C:	1 hPa
· Density at 20°C:	0.71 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
64741-65-7 Naphtha (petroleum), heavy alkylate		
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 5 mg/l (rat)

- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.



13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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(Contd. on page 5)

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14 Transport information

· UN-Number · ADR, IMDG, IATA	UN1300
· UN proper shipping name · ADR · IMDG, IATA	1300 TURPENTINE SUBSTITUTE TURPENTINE SUBSTITUTE
· Transport hazard class(es) · ADR	
	
· Class · Label	3 Flammable liquids. 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 30 F-E,S-E
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Tunnel restriction code	D/E
· UN "Model Regulation":	UN1300, TURPENTINE SUBSTITUTE, 3, III

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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