Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.08.2014 Version number 2 Revision: 18.08.2014

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

1.1 Product identifier

Trade name: PETROLEUM 132-175 °C, special fraction

Article number: 5661

CAS Number:
64742-82-1
EC number:
919-446-0

Registration number 01-2119458049-33-xxxx

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

Application of the substance / the mixture

Sector of Use
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category
PC1 Adhesives, sealants
PC3 Air care products
PC4 Anti-Freeze and de-icing products
PC8 Biocidal products (e.g. Disinfectants, pest control)
PC9a Coatings and paints, thinners, paint removers
PC9b Fillers, putties, plasters, modelling clay
PC9c Finger paints
PC13 Fuels
PC15 Non-metal-surface treatment products
PC16 Heat transfer fluids
PC17 Hydraulic fluids
PC18 Ink and toners
PC23 Leather tanning, dye, finishing, impregnation and care products
PC24 Lubricants, greases, release products
PC31 Polishes and wax blends
PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
PC35 Washing and cleaning products (including solvent based products)
PC38 Welding and soldering products (with flux coatings or flux cores.), flux products

Process category
PROC1 Use in closed process, no likelihood of exposure
PROC2 Use in closed, continuous process with occasional controlled exposure
PROC3 Use in closed batch process (synthesis or formulation)
PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7 Industrial spraying
PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation

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PROC15 Use as laboratory reagent
PROC16 Using material as fuel sources, limited exposure to unburned product to be expected
PROC17 Lubrication at high energy conditions and in partly open process
PROC18 Greasing at high energy conditions
PROC19 Hand-mixing with intimate contact and only PPE available
PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems

Environmental release category
ERC1 Manufacture of substances
ERC2 Formulation of preparations
ERC3 Formulation in materials
ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
ERC5 Industrial use resulting in inclusion into or onto a matrix
ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)
ERC6b Industrial use of reactive processing aids
ERC6c Industrial use of monomers for manufacture of thermo-plastics
ERC6d Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
ERC7 Industrial use of substances in closed systems
ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8d Wide dispersive outdoor use of processing aids in open systems
ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix
ERC9a Wide dispersive indoor use of substances in closed systems
ERC9b Wide dispersive outdoor use of substances in closed systems

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Carl Roth GmbH + Co. KG
Schoemperlenstraße 3-5
76185 Karlsruhe
Germany
Telefon: +49/(0)721 5606-0 Telefax: +49/(0)721 5606-149 E-Mail: sicherheit@carlroth.de

Further information obtainable from: Department Health, Safety and Environment

1.4 Emergency telephone number:
Poison Centre Munich Telefon +49/(0)89 19240

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
STOT SE 3	H336	May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Xn; Harmful
R65: Harmful: may cause lung damage if swallowed.

N; Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10-66-67: Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:
Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)

Hazard statements
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P243 Take precautionary measures against static discharge.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards
All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

*
SECTION 3: Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No. Description
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)

Identification number(s)
EC number: 919-446-0
Molar mass [g/mol]: 131

Dangerous components: Void

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Immediately remove any clothing soiled by the product.

After inhalation:
Take affected persons into fresh air and keep quiet.
If breathing is difficult, give oxygen. Seek medical treatment.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Use skin protection cream for skin protection.

After eye contact:
To be sure rinse opened eye under running water. If there is any trouble seek medical help.

After swallowing:
Rinse out mouth and then drink water.
Risk of aspiration!
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
Repeated exposure may cause skin dryness or cracking.
irritant effects
Headache
Dizziness
Nausea
Ataxia
coughing
Unconsciousness

Hazards
Danger of disturbed cardiac rhythm.
Danger of impaired breathing.
Risk of aspiration

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: CO2, powder,foam or water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture
Can form explosive gas-air mixtures.

In the event of fire development of hazardous combustion gases or vapours possible.
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide

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5.3 Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device.
In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
Additional information
Vapours heavier than air. Beware of reignition.
Cool endangered receptacles with water spray.
Prevent fire-fighting water from entering surface water or groundwater.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Do not inhale vapours. Avoid contact with the eyes and skin.
Keep away from ignition sources.
Ensure adequate ventilation

6.2 Environmental precautions
Do not allow product to reach sewage system or any water course.
Avoid penetration into drainage system because of danger of explosion.

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).
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
Use only in well ventilated areas.
Avoid exposure.
Keep away from heat and direct sunlight.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:
Prevent any seepage into the ground.

Information about storage in one common storage facility:
Store away from foodstuffs.

Further information about storage conditions:
Keep container tightly sealed.
Store receptacle in a well ventilated area.

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Recommended storage temperature: 15 - 25 °C

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

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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: Not required.
DNELs

Worker

Long-term exposure - systemic effects:		
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)		
Dermal	DNEL	44 mg/kg (worker)
Inhalative	DNEL	330 mg/m³ (worker)

Consumer

Long-term exposure - systemic effects:		
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)		
Oral	DNEL	26 mg/kg (Custumer)
Dermal	DNEL	26 mg/kg (Custumer)
Inhalative	DNEL	71 mg/m³ (Custumer)

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

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Do not eat, drink or smoke while working.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.
Clean skin thoroughly immediately after handling the product.

Individual protection measures
Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Required when vapours/aerosols are generated. Filter A (colour code: brown).
When selecting your respiratory unit: Consider the "Rules for the use of respiratory protection equipment" (BGR190).

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Protection of hands:

Protective gloves
Check protective gloves prior to each use for their proper condition.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves
Nitrile, thickness >0,3 mm.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material
Value for the permeation: Level ≥ 6
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

As protection from splashes gloves made of the following materials are suitable:
Nitrile, thickness >0,3 mm.
Value for the permeation: Level ≥ 6

Eye protection:

Tightly sealed goggles

Body protection:
Antistatic and flame-retardent clothing.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Petroleum-like
Odour threshold:	No information available.
pH-value:	No information available.
Change in condition	
Melting point/Melting range:	< -15 °C
Boiling point/Boiling range:	> 132 °C
Flash point:	23 °C
Flammability (solid, gaseous):	No information available
Ignition temperature:	240 °C (DIN 51794)
Decomposition temperature:	No information available

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Self-igniting:	No information available
Danger of explosion:	Not classified als explosive.
Explosion limits:	
Lower:	0.7 Vol %
Upper:	6.5 Vol %
Oxidizing properties:	No information available.
Vapour pressure at 20 °C:	800 Pa
Density at 20 °C:	0.775 g/cm³
Vapour density	No information available
Evaporation rate	No information available
Solubility in / Miscibility with water at 20 °C:	0.04 g/l Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	3.7 - 6.7 log POW
Viscosity:	
Dynamic:	No information available.
Kinematic at 20 °C:	0.98 mm²/s
9.2 Other information	No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity
Fumes can combine with air to form an explosive mixture.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions
Reacts with strong oxidizing agents.

10.4 Conditions to avoid
Heat, flammes and sparks

10.5 Incompatible materials:
various plastics

10.6 Hazardous decomposition products:
In case of fire: see item 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)		
Oral	LD_{50}	> 15000 mg/kg (rat) (OECD 401)
Dermal	LD_{50}	3400 mg/kg (rat) (OECD 402)

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Inhalative	LC_{50}/4 h	13100 mg/l (rat) (OECD 403)

Primary irritant effect:

on the skin:
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

on the eye:
Intense exposure may cause irritative symptoms.

after inhalation:
Irritations in the respiratory tract, coughing, absorption.
Headache, dizziness

Sensitization:
No sensitizing effects known.

CMR effects:
Germ cell mutagenicity:
No information available.
Carcinogenicity:
No information available.
Reproductive toxicity:
No information available.

Aspiration hazard:
May be fatal if swallowed and enters airways.

Specific target organ toxicity - single exposure May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:
After inhalation of large quantities:
Nausea
dyspnoea and impaired locomotor coordination.
Unconsciousness
Respiratory arrest

Further information:
The product should be handled with the care usual when dealing with chemicals.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Fish toxicity:	
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)	
LC_{50}	10 mg/l/96 h (Onchorhynchus mykiss) (OECD 203)

Daphnia toxicity:	
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)	
EC50	10 mg/l/48 h (Daphnia magna) (OECD 202)

Algeal toxicity:	
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)	
IC50	4.6 mg/l/72 h (Pseudokirchneriella subcapitata)

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chronic daphnia toxicity:	
64742-82-1 Hydrocarbons C9-C12, n-alkanes, iso-alkanes, cyclic compounds, aromatic compounds (2-25%)	
NOEC	0.097 mg/l (Daphnia magna)

12.2 Persistence and degradability
Easily biodegradable

12.3 Bioaccumulative potential
May be accumulated in organism

12.4 Mobility in soil
No further relevant information available.

Ecotoxical effects:

Remark:
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow to enter waters, waste water, or soil!

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

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SECTION 13: Disposal considerations

Waste treatment methods

Recommendation
This material and its container must be disposed of as hazardous waste.
The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:

Recommendation:
Disposal according to official regulations.

*
SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA	UN1300

14.2 UN proper shipping name

ADR	1300 TURPENTINE SUBSTITUTE, ENVIRONMENTALLY HAZARDOUS
IMDG	TURPENTINE SUBSTITUTE, MARINE POLLUTANT
IATA	TURPENTINE SUBSTITUTE

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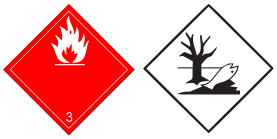
14.3 Transport hazard class(es)

ADR, IMDG



Class	3 Flammable liquids.
Label	3

IATA

Class	3 Flammable liquids.
Label	3

14.4 Packing group

ADR, IMDG, IATA	III

14.5 Environmental hazards:

Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

14.6 Special precautions for user

	Warning: Flammable liquids.
Danger code (Kemler):	30
EMS Number:	F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E

UN "Model Regulation":	UN1300, TURPENTINE SUBSTITUTE, ENVIRONMENTALLY HAZARDOUS, 3, III

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SECTION 15: Regulatory information

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

National regulations:

Information about limitation of use:
Employment restrictions concerning pregnant and lactating women must be observed.

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Employment restrictions concerning juveniles must be observed.

Breakdown regulations:

Waterhazard class:
Water hazard class 2 (Assessment by list): hazardous for water.

15.2 Chemical safety assessment
A Chemical Safety Assessment has not been carried out.

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SECTION 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.

Department issuing MSDS: Department: Health, Safety and Environment

Contact: Frau Weckemann
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)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
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 Harmonized 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LD50*: Lethal Dose, 50 percent (Not relevant for classification)
LD50*: Lethal Concentration, 50 percent (Not relevant for classification)
Flam. Liq. 3: Flammable liquids, Hazard Category 3
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
*** Data compared to the previous version altered.**