

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

1 Identification

· Product identifier

- Trade name: **Polishing Fluid No. 10-2012**
- Article number: 10820, 10821, 10822, 10862/10935
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Maintenance product

· Details of the supplier of the safety data sheet

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de
- Information department: Laboratory
- Emergency telephone number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



Harmful

Harmful: may cause lung damage if swallowed.



Irritant

Irritating to skin.



Highly flammable

Highly flammable.



Dangerous for the environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

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· Information concerning particular hazards for human and environment:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

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.

Has a narcotizing effect.

· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **Label elements**

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

cyclohexane
n-hexane

Kohlenwasserstoff, C6-C7, Isoalkane, Cycloalkane, <5% n-Hexan

Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane

· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

· 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.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing vapours.

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.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· NFPA ratings (scale 0 - 4)



Health = 1

Fire = 3

Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = *1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· **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 the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane ☒ Xn R65; ☒ Xi R38; ☒ F R11; ☒ N R50/53 R67 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 64742-49-0 EC number: 926-605-8	Kohlenwasserstoff, C6-C7, Isoalkane, Cycloalkane, <5% n-Hexan ☒ Xn R65; ☒ F R11; ☒ N R51/53 R66-67 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	25-50%
CAS: 64742-49-0 EC number: 920-750-0	Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane ☒ Xn R65; ☒ F R11; ☒ N R51/53 R66-67 ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	12.5-25%
CAS: 8002-74-2 EINECS: 232-315-6	Paraffin waxes and Hydrocarbon waxes	<12.5%
CAS: 64742-82-1 EC number: 919-164-8	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ☒ Xn R65 R52/53-66 ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	<12.5%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane ☒ Xn R48/20-62-65; ☒ Xi R38; ☒ F R11; ☒ N R51/53 R67 Repr. Cat. 3 ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	1-5%

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

4 First-aid measures· **Description of first aid measures**

- General information: Immediately remove any clothing soiled by the product.
Take affected persons out into the fresh air.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Position and transport stably on side.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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- After swallowing: Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor: Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)
a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.
b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.
Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.
- Most important symptoms and effects, both acute and delayed Breathing difficulty
Headache
Dizziness
Dizziness
Gastric or intestinal disorders
Nausea
Danger of impaired breathing.
- Danger
- Indication of any immediate medical attention and special treatment needed If swallowed, gastric irrigation with added, activated carbon.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
In certain fire conditions, traces of other toxic gases cannot be excluded.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
Cool endangered receptacles with water spray.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Use respiratory protective device against the effects of fumes/dust/aerosol.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **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 Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Use only in well ventilated areas.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Protect from heat.
Highly volatile, flammable constituents are released during processing.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
Store only in the original receptacle.
Prevent any seepage into the ground.
- Information about storage in one common storage facility: Store away from oxidizing agents.
Store away from foodstuffs.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.
- Storage class: 3
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· Components with limit values that require monitoring at the workplace:

110-82-7 cyclohexane

PEL	Long-term value: 1050 mg/m ³ , 300 ppm
REL	Long-term value: 1050 mg/m ³ , 300 ppm
TLV	Long-term value: 344 mg/m ³ , 100 ppm

8002-74-2 Paraffin waxes and Hydrocarbon waxes

REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³

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110-54-3 n-hexane

PEL	Long-term value: 1800 mg/m ³ , 500 ppm
REL	Long-term value: 180 mg/m ³ , 50 ppm
TLV	Long-term value: 176 mg/m ³ , 50 ppm Skin; BEI

· Ingredients with biological limit values:

110-54-3 n-hexane

BEI	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2.5-Hexanedione without hydrolysis
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· Additional information: The lists that were valid during the creation were used as basis.

· **Exposure controls**

· Personal protective equipment:
· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:
Filter AX

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
STOKODERM (<http://www.stoko.com>)
Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
STOKO EMULSION (<http://www.stoko.com>)
Akemi skin protection recommendation for skin cleaning after product handling:
FRAPANTOL (<http://www.stoko.com>)
Akemi skin protection agent recommendation for skin aftercare:
STOKO VITAN (<http://www.stoko.com>)
The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.
This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

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Protective gloves

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

Fluorocarbon rubber (Viton)
Nitrile rubber, NBR

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

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level ≤ 6, 480 min

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)
Vitoject (KCL, Art No. 890)
Nitrile rubber, NBR
Camatril (KCL, Art No. 730, 731, 732, 733)

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)
Vitoject (KCL, Art No. 890)
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves
Strong gloves

· Eye protection:



Tightly sealed goggles

· Body protection:

Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· General Information

· Appearance:

Form:	Fluid
Color:	Yellowish
· <u>Odor:</u>	Petrol-like

· pH-value: Not applicable

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	316 °C (601 °F)

· Flash point: < 10 °C (< 50 °F)

· Ignition temperature: 260 °C (500 °F)

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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· <u>Explosion limits:</u>	
Lower:	1.2 Vol %
Upper:	8.3 Vol %
· <u>Vapor pressure at 20 °C (68 °F):</u> 104 hPa (78 mm Hg)	
· <u>Density at 20 °C (68 °F):</u> 0.78 g/cm ³ (6.509 lbs/gal)	
· <u>Specific gravity at 20 °C (68 °F):</u> 0.78 g/cm ³ (6.509 lbs/gal)	
· <u>Solubility in / Miscibility with</u>	
Water:	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
· <u>Solvent content:</u>	
Organic solvents:	87.0 %
Solids content: 12.9 %	
· Other information No further relevant information available.	

10 Stability and reactivity

· Reactivity	
· Chemical stability	
· <u>Thermal decomposition / conditions to be avoided:</u>	
	No decomposition if used according to specifications. No decomposition if used and stored according to specifications.
· Possibility of hazardous reactions	
	Reacts with strong oxidizing agents.
· Conditions to avoid	
	No further relevant information available.
· Incompatible materials:	
	No further relevant information available.
· Hazardous decomposition products:	
	Carbon monoxide and carbon dioxide Flammable gases/vapors

11 Toxicological information· **Information on toxicological effects**

· Acute toxicity:

· LD/LC50 values that are relevant for classification:**110-82-7 cyclohexane**

Oral	LD50	12705 mg/kg (rat)
Dermal	LD50	>18000 mg/kg (rabbit)

64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral	LD50	>5000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>2920 mg/kg (rabbit) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4 h	>13.1 mg/l (rat)

110-54-3 n-hexane

Oral	LD50	28700 mg/kg (rat)
Dermal	LD50	3295 mg/kg (rabbit)

· Primary irritant effect:· on the skin:

Irritant to skin and mucous membranes.

· on the eye:

No irritating effect.

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- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

· 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.

12 Ecological information· **Toxicity**· Aquatic toxicity:**64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

EL50/48h	10-22 mg/l (daphnia magna)
EL50/72h	50-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	10-100 mg/l (Oncorhynchus mykiss)
NOEC/21d	0.097 mg/l (daphnia magna)
NOELR/21d	0.28 mg/l (daphnia magna)
NOELR/28d	0.091 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)

- **Persistence and degradability** No further relevant information available.
- **Behavior 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: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 2 (Self-assessment): hazardous for water
- **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 of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

- Recommendation: Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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· Recommended cleansing agent: Alcohol

14 Transport information

· **UN-Number**
 · DOT, ADR, IMDG, IATA UN3295

· **UN proper shipping name**
 · DOT Hydrocarbons, liquid, n.o.s. (Naphtha (petroleum), hydrotreated light)
 · ADR 3295 Hydrocarbons, liquid, n.o.s., special provision 640D (Naphtha (petroleum), hydrotreated light), ENVIRONMENTALLY HAZARDOUS
 · IMDG HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
 · IATA HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)

· **Transport hazard class(es)**

· DOT

 · Class 3 Flammable liquids.
 · Label 3

· ADR

 
 · Class 3 (F1) Flammable liquids
 · Label 3

· IMDG

 
 · Class 3 Flammable liquids.
 · Label 3

· IATA


 · Class 3 Flammable liquids.
 · Label 3

· **Packing group**
 · DOT, ADR, IMDG, IATA II

· **Environmental hazards:** Product contains environmentally hazardous substances:
 · Marine pollutant: Symbol (fish and tree)
 · Special marking (ADR): Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids
 · **Danger code (Kemler):** 33

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· EMS Number:	F-E,S-D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN3295, Hydrocarbons, liquid, n.o.s., special provision 640D (Naphtha (petroleum), hydrotreated light), ENVIRONMENTALLY HAZARDOUS, 3, II

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

110-82-7	cyclohexane
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110-54-3	n-hexane
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· TSCA (Toxic Substances Control Act):

110-82-7	cyclohexane
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68132-00-3	Kohlenwasserstoff-Harz
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8002-74-2	Paraffin waxes and Hydrocarbon waxes
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110-54-3	n-hexane
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· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenity categories

· EPA (Environmental Protection Agency)

110-82-7	cyclohexane	
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110-54-3	n-hexane	II
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· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

cyclohexane
n-hexane
Kohlenwasserstoff, C6-C7, Isoalkane, Cycloalkane, <5% n-Hexan
Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane

· Hazard statements

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

· 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.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing vapours.
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.
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

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

· Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

· VOC USA

674.7 g/l / 5.63 lb/gl

· 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.

· Department issuing MSDS:

Laboratory

· Contact:

Dieter Zimmermann

· Date of preparation / last revision

01/22/2014 / -

· 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 Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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Safety Data Sheet
acc. to OSHA HCS

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IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

USA