

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 01.06.2010

Version: 3

Revision: 01.06.2010

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

Product details**Trade name:** Med. Spirit Gum Remover**Article number:** 06531,06532,06533,06534,06535**Application of the substance / the preparation** Remover**Manufacturer/Supplier:**

Kryolan GmbH

Papierstraße 10

D-13409 Berlin

Tel: 49 (0) 3049989250

Fax: 49 (0) 304914994

Further information obtainable from:

Section Productsafety

andreas.lueth@kryolan.de

Information in case of emergency: 49 (0)304011577 oder 49 (0)30499892-20 o.-60

2 Hazards identification

Hazard description:

Xn Harmful

F Highly flammable

N Dangerous for the environment

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.

R 11 Highly flammable.

R 38 Irritating to skin.

R 62 Possible risk of impaired fertility.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements**Danger**

H225 - Highly flammable liquid and vapour.

**Danger**

H350 - May cause cancer.

H304 - May be fatal if swallowed and enters airways.

H361 - Suspected of damaging fertility or the unborn child.

**Warning**

H319 - Causes serious eye irritation.

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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- **Response:**

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.*

- **Disposal:**

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










3 Composition/information on ingredients

- **Chemical characterization**

- **Description:**

Solvent mixture

- **Dangerous components:**

CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light  Xn,  Xi,  F,  N; R 11-38-62-51/53-65-67 Danger:  3.6/1B, 3.10/1	80-85%
CAS: 67-64-1 EINECS: 200-662-2	acetone  Xi,  F; R 11-36-66-67 Danger:  2.6/2 Warning:  3.3/2, 3.8/3	15-20%

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

4 First aid measures

- **General information:**

Take affected persons out into the fresh air.
 Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.

- **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**

CO₂, 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 caused by the substance, its products of combustion or resulting gases:**

Carbon monoxide (CO)

Can form explosive gas-air mixtures.

- **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

- **Additional information** Cool endangered receptacles with water spray.

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6 Accidental release measures

- **Person-related safety precautions:**
 Keep away from ignition sources.
 Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
 Prevent seepage into sewage system, workpits and cellars.
 Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 Keep away from heat and direct sunlight.
 Keep receptacles tightly sealed.
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
 Fumes can combine with air to form an explosive mixture.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Use explosion-proof apparatus / fittings and spark-proof tools.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
 Store away from foodstuffs.
 Do not store together with acids.
 Store away from oxidizing agents.
 Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
 Keep container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

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

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

67-64-1 acetone	
WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
64742-49-0 Naphtha (petroleum), hydrotreated light	
WEL	Short-term value: 1250 mg/m ³ , 500 ppm
	Long-term value: 999 mg/m ³ , 400 ppm

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

- **Personal protective equipment:**
- **General protective and hygienic measures:**
 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.

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· **Respiratory protection:**

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **Material of gloves**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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:**



Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Colour:	Clear
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range:	-50°C
Boiling point/Boiling range:	45-62°C

· **Flash point:** -30°C

· **Ignition temperature:** 200°C

· **Self-igniting:** Product is not selfigniting.

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

· **Explosion limits:**

Lower:	0.8 Vol %
Upper:	8 Vol %

· **Vapour pressure at 20°C:** 330 hPa

· **Density at 20°C:** 0.65 g/cm³

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

Not miscible or difficult to mix.

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- **Solvent content:**
- Organic solvents:** 90-100 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions**
 Reacts with acids, alkalis and oxidizing agents.
 Reacts with alkaline metals.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

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

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	2000 mg/kg (rat)
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67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
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Dermal	LD50	20000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
 Irritant

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 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

13 Disposal considerations

- **Product:**
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

07 01 04	other organic solvents, washing liquids and mother liquors
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1993
- **Packaging group:** II
- **Hazard label:** 3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ACETONE)

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ACETONE)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1993
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ACETONE)

· **UN "Model Regulation":** UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

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· Code letter and hazard designation of product:

Xn Harmful
F Highly flammable
N Dangerous for the environment

· Hazard-determining components of labelling:

Naphtha (petroleum), hydrotreated light

· Risk phrases:

- 11 Highly flammable.
- 38 Irritating to skin.
- 62 Possible risk of impaired fertility.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 29 Do not empty into drains.
- 33 Take precautionary measures against static discharges.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· National regulations:**· Information about limitation of use:**

- Employment restrictions concerning juveniles must be observed.
- Employment restrictions concerning pregnant and lactating women must be observed.

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 R-phrases

- 11 Highly flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Section Product Safty**· Contact: Mr.Lüth****· 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
- 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)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent