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Reviewed on:	<b>INOX CLEANER</b>	

**1. Identification of substance, company:**

- 1.1. Identification of substance: **INOX CLEANER** – 1 35001  
 1.2. Application of the substance/the preparation: Cleaning agent/cleaner  
 1.3. Identification of manufacturer/Supplier:  
 RETECH, s.r.o.  
 Vackova 1541/4  
 150 00 Praha-5 Stodůlky  
 Telephone/Fax: +420 327 596 128, +420 596 428  
 Information: [info@retech.cz](mailto:info@retech.cz)  
 1.4. Telephone number for RETECH Suchdol 212, Suchdol u Kutné Hory  
 extraordinary situations: Tel.+420 327 596 128 (7.30-16.00 hour)  
 Toxicology information number, Na bojišti 1, 128 08 PRAHA 2  
 Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)

**2. Hazard identification:** The product is labeled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

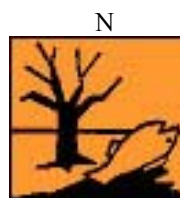
2.1. Hazard designation:



Extremely flammable



Irritant



Dangerous for environment

2.2. Information pertaining to particular dangers for man and environment:

Extremely flammable  
 Irritating to eyes.  
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Repeated exposure may cause skin dryness or cracking.  
 Vapours may cause drowsiness and dizziness.

2.3. Additional information:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition.-  
 No smoking.  
 Buildup of explosive mixtures possible without sufficient ventilation.  
 Keep out of the reach of children  
 The classification is in line with current EC lists, It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**3. Composition/information on ingredients:**

3.1. Description:

Mixture of substances below with harmless additions.

3.2. Dangerous components:

Chemical name	Contents(%)	Number CAS	Number ES	Cautionary symbol	R sentences
Naphtha (petroleum), Hydrotreated heavy	25-50	64742-48-9	265-150-3	Xn	R 65-66
Isobutane	10-25	75-28-5	200-857-2	F+	R 12

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Propan-2-ol	10-25	67-63-0	200-661	Xi, F	R 11-36-67
Propane	10-25	74-98-6	200-827-9	F+	R 12
Acetone	2.5-10	67-64-1	200-662-2	F, Xi	R 11-36-66-67
Oleoylsarcosin	≤2,5	110-25-8	203-749-3	Xi, N	R 38-41-50/53
Butane	2.5-10	106-97-8	203-448-9	F+	R 12

Additional information: For the wording of the listed risk phrases refer to section 16.  
 Ingredients according to detergents guideline 648/2004/EC: Aliphatic hydrocarbons ≥30%

**4. First aid measures:**

- 4.1. After inhalation: Fresh air, rest, if necessary seek medical advice.
- 4.2. After skin contact: Remove soaked clothing, wash with plenty of water and soap and rinse thoroughly.
- 4.3. After eye contact: Rinse with plenty of water and seek medical advice in case of symptoms
- 4.4. After swallowing: Wash out mouth with water and seek medical advice. Do not induce vomiting.
- 4.5. General information: -

**5. Fire fighting measures:**

- 5.1. Suitable extinguishing agents: CO<sub>2</sub>, powder or foam
- 5.2. For safety reasons unsuitable extinguishing agents: Water with full jet.
- 5.3. Protective equipment: Wear protecting clothes and oxygen-mask; fight the fire from a protected place.
- 5.4. Special hazards caused by the material, its products of combustion or resulting gases: Can form explosive gas mixtures. Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide and carbon dioxide.
- 5.5. Additional information: Aerosols may explode when overheated. Cool the container with water. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6. Accidental release measure:**

- 6.1. Person-related safety precautions: Wear protective equipment see item 8.2. Ensure adequate ventilation. Keep unprotected person away. Keep away from ignition sources.
- 6.2. Measures for environmental protection: Do not allow to enter sewers/surface or ground water. Inform respective authorities in case product reaches water or sewage system.
- 6.3. Measures for cleaning/collecting: Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- 6.4. Additional information: -

**7. Handling and storage:**

- 7.1. Handling:
  - Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes.
  - Information about protection against explosions and fires: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, do not open violently, do not spray on a naked flame or any incandescent material, do not pierce or burn even after use. Keep away from sources ignition.– Do not smoke. Protect against electrostatic charges.
- 7.2. Storage:
  - Requirements to be met by storerooms and containers: Store in a cool and dry location, protect from sunlight and do not expose to temperatures exceeding 50°C. Observe official regulations on storing packagings with pressurized containers.
  - Information about storage in one: Not required.

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common storage facility:  
 Further information about storage conditions: -

**8. Exposure controls and personal protection:**

8.1. Validate parameter:

Components with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm  
 Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

106-97-8 butane

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm  
 Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm  
 Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

Additional information: The lists that were valid during the compilation were as basis.

8.2. Personal protective equipment:

Eye protection: Tightly sealed protective glasses

Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.  
 Recommended filter device for short term use – Filter AX.

Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Material of gloves – Butyl rubber, BR; recommended thickness of material: ≥ 0.7 mm.  
 Penetration time of glove material: ≥60 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Protection of skin: protective working clothing

8.3. General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands during breaks and at the end of the work.  
 Avoid contact with the eyes and skin. Do not inhale gases/fumes/aerosols.

**9. Physical and chemical properties:**

Form: Aerosol

Colour: Yellowish

Odour: Solvent-like

9.1. Melting point/Melting range:

-

Boiling point/Boiling range:

Not determined

Flash point:

-

Inflammability (strength, gas form)

Not determined

Self-inflammability:

> 200°C

Danger of explosion:

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Explosion limits: lower (% Vol.):

-

upper (% Vol.):

-

Vapor pressure (at 20°C):

-

Density at 20 °C

0.686 g/cm<sup>3</sup>

Solubility in/Miscibility with

- water

Partly miscible

9.2. Other information:

Organic solvents: 88.7%

VOC: 608.5 g/l

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**10. Stability and reactivity:**

- 10.1. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.  
 10.2. Dangerous reactions: No dangerous reaction known.  
 10.3. Dangerous decomposition products: Carbon monoxide and carbon dioxide

**11. Toxicological information:**

- 11.1. Acute toxicity:  
 67-64-1 acetone  
 Oral LD50 5800 mg/kg (rat)  
 Dermal LD50 20000 mg/kg (rbt)  
 67-63-0 Propan-2-ol  
 Oral LD50 4570 mg/kg (rat)  
 Dermal LD50 13400 mg/kg (rab)  
 Inhalative LC50/4h 30 mg/l (rat)
- 11.2. Primary irritant effect:  
 on the skin: Long-term or repeated contact may cause skin irritation.  
 on the eye: Irritating effect.  
 Sensitization: No sensitizing effect known.  
 Additional toxicological information: Vapours have narcotic effect.

**12. Ecological information:**

Water hazard class 2 (Self-assessment): hazardous for water.  
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
 Harmful to aquatic organisms, harmful to fish.

**13. Disposal considerations:**

- 13.1. Product: Must not be disposed with household garbage. Disposal must be made according to official regulations.  
 13.2. Uncleaned packagings: Disposal must be made according to official regulations.

**14. Transport information:**

- 14.1. Land transport:  
 ADR/RID-GGVS: 2  
 Number/Letter: 5F  
 Danger code (Kemler): 23  
 Number UN: 1950  
 Description of goods: Aerosols  
 Remark: "Limited quantities" LQ  
 Tunnel restriction code: D
- 14.2. Maritime transport:  
 IMDG-class: 2.1  
 Number UN: 1950  
 Packaging group: -  
 EMS-group: F-D,S-U  
 Marine pollutant: No  
 Proper shipping name: Aerosols  
 Remark: "Limited quantities"
- 14.3. Air transport:  
 ICAO / IATA -class: 2.1  
 UN/ID number: 1950  
 Packaging group: -  
 Proper shipping name: Aerosols, flammable

**15. Regulatory information:**

- 15.1. Labelling according to law line:

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

Danger of determining components and mark to labelling:

67-63-0 Propan-2-ol, 74-98-6/106-97-8 Propane/Butane, 64742-49-0 Naphtha (petroleum), hydrotreated light

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after burn. Do not spray on a naked flame or any incandescent material.

Labelling hazardousness:



F+ - Extremely flammable



Xi- Irritant



N- Dangerous for the environment

Numbers and word reading associated hazard R-sentences :

R 12 Extremely flammable.

R 36 Irritating to eyes.

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

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:

S 2 Keep out of reach of children.

S 16 Keep away from sources of ignition – No smoking.

S 23 Do not breathe vapours/spray.

S 24/25 Avoid contact with skin and eyes.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 51 Use only in well-ventilated areas.

S 56 Dispose of this material and its container at hazardous or special waste collection point.

Density: 0,686 g/cm<sup>3</sup>

VOC: 608,5 g/l

Regulation (EC) No 648/2004 Contains: Aliphatic hydrocarbons  $\geq 30\%$

15.2. Used legislation:

European Regulation (EC) No 1907/2006 – REACH

European Regulation No 67/548EEC and 1999/45/EC

Regulation (EC) No 648/2004 (detergents)

16. **Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relative R-phrases:

R 11 Highly flammable.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: May cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.