

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/29/2015

Reviewed on 05/29/2015

1 Identification

- **Product identifier**
- **Trade name:** Rawn Stainless Steel Cleaner
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cortec Corporation
4119 White Bear Parkway
St. Paul, MN 55110 USA
Phone (651) 429-1100
Fax (651) 429-1122
- **Information department:** regulatory@cortecvci.com
- **Emergency telephone number:**
Spill, Leak, Fire, Exposure, or Accident
24 hour CHEMTREC contact:
USA and Canada 1-800-424-9300
International +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 1B H360 May damage 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.

- **Label elements**

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

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Hazard pictograms

Signal word Danger

Hazard-determining components of labeling:

 Petroleum gases, liquefied, sweetened
 isoalkanes 7-8

1-methyl-2-pyrrolidone

Hazard statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Precautionary statements

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

Pressurized container: Do not pierce or burn, even after use.

If swallowed: Immediately call a poison center/doctor.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 70024-92-9	isoalkanes 7-8 	25-50%
CAS: 68476-86-8 EINECS: 270-705-8	Petroleum gases, liquefied, sweetened 	25-50%
CAS: 872-50-4 EINECS: 212-828-1	1-methyl-2-pyrrolidone 	≤ 2.5%

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

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4 First-aid measures

- **Description of first aid measures**
- **After inhalation** In case of unconsciousness place patient stably on side position for transportation.
- **After skin contact**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide, dry chemical, alcohol foam. Water or foam may cause frothing. Use water spray to cool fire-exposed containers.

CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents**
Water.
Water with full jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.



Wear protective equipment. Keep unprotected persons away.

- Ensure adequate ventilation
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

- Protect from heat.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights.
- Do not pierce or burn, even after use.
- Do not spray on a naked flame or any incandescent material.
- Use explosion-proof apparatus / fittings and spark-proof tools.
- **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.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Do not gas tight seal receptacle.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **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:**

872-50-4 1-methyl-2-pyrrolidone (≤ 2.5%)

WEEL	Long-term value: 10 ppm
	Skin

- **Ingredients with biological limit values:**

872-50-4 1-methyl-2-pyrrolidone (≤ 2.5%)

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BEI	100 mg/L
	Medium: urine
	Time: end of shift
	Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **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.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

Protective gloves

I.E., Nitrile, Viton, Neoprene

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

· **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.

· **Body protection:** Protective work clothing.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Aerosol

Color: Clear

· **Odor:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: Not applicable, as aerosol

· **Flash point:** Not applicable, as aerosol

· **Flammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 420 °C (788 °F)

· **Decomposition temperature:** Not determined.

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· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	1.0 Vol %
Upper:	10.9 Vol %
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.74-0.76 g/cm ³ (6.175-6.342 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
· Solvent content:	
Organic solvents:	1-5 %
· Other information	The above data are typical values and do not constitute a specification.

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.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** May be irritating.
 - **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
Carcinogenic
The product can cause inheritable damage.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

IARC Category 3 : Not classifiable as to its carcinogenicity to humans

- **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

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to 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.

14 Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA · ADR | UN1950
UN1950
Not applicable |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA | Aerosols, flammable
1950 Aerosols, ENVIRONMENTALLY HAZARDOUS
AEROSOLS (isoalkanes 7-8), MARINE POLLUTANT
AEROSOLS, flammable |

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· Transport hazard class(es)

· DOT



· Class 2.1
· Label 2.1

· ADR



· Class 2 5F Gases
· Label 2.1

· IMDG



· Class 2.1
· Label 2.1

· IATA



· Class 2.1
· Label 2.1

· Packing group

· DOT, ADR, IMDG, IATA Void

· Environmental hazards: Product contains environmentally hazardous substances: isoalkanes 7-8

· Marine pollutant: Yes

Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· Special precautions for user Warning: Gases

· Danger code (Kemler): -

· EMS Number: F-D,S-U

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

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- | | |
|--|---|
| <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | <p>1L
Code: E0
Not permitted as Excepted Quantity</p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p>UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS, 2.1</p> |

15 Regulatory information

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

- **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings)**

872-50-4 | 1-methyl-2-pyrrolidone

- **TSCA (Toxic Substances Control Act) (-)**

All ingredients are listed.

- **Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Canadian Domestic Substances List (DSL) (-)**

isoalkanes 7-8

- **Philippines Inventory of Chemicals and Chemical Substances (-)**

isoalkanes 7-8

- **Chinese Chemical Inventory of Existing Chemical Substances (-)**

isoalkanes 7-8

- **Australian Inventory of Chemical Substances (-)**

All ingredients are listed.

- **New Zealand Inventory of Chemicals (-)**

isoalkanes 7-8

- **Existing Chemical Substances (-)**

isoalkanes 7-8

Petroleum gases, liquefied, sweetened

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

- **Hazard pictograms**



GHS02

GHS04

GHS07

GHS08

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- **Signal word** Danger

- **Hazard-determining components of labeling:**

Petroleum gases, liquefied, sweetened
isoalkanes 7-8

1-methyl-2-pyrrolidone

- **Hazard statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

- **Precautionary statements**

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

Pressurized container: Do not pierce or burn, even after use.

If swallowed: Immediately call a poison center/doctor.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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

- **National regulations**

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

- **Technical instructions (air):**

Class	Share in %
NK	1.7

- **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.

Cortec Corporation does not warranty any translation of this SDS not created by Cortec Corporation.

- **Date of preparation / last revision** 05/29/2015 / -

- **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)

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1B: Carcinogenicity, Hazard Category 1B

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Repr. 1B: Reproductive toxicity, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

*** Data compared to the previous version altered.**

USA