

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/14/2015

Reviewed on 05/14/2015

## 1 Identification

- **Product identifier**
- **Trade name: Rawn Universal Contact Cleaner, aerosol**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Contact 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:**  
info@cortecvci.com  
Product safety department.
- **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-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS08 Health hazard

Muta. 1B	H340	May cause genetic defects.
Carc. 1A	H350	May cause cancer.
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**



Toxic

May cause cancer. May cause heritable genetic damage.



Irritant

Irritating to skin.



Dangerous for the environment

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

Vapours may cause drowsiness and dizziness.

· **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.

Warning! Pressurized container.

Has a narcotizing effect.

· **Label elements**

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

· **Hazard pictograms**



GHS02   GHS04   GHS07   GHS08

· **Signal word** Danger

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

hexane (containing < 5 % n-hexane (203-777-6))

ethanol

Naphtha (petroleum), hydrotreated light

n-hexane

· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging 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.

· **Classification system**

· **NFPA ratings (scale 0-4)**



Health = 1

Fire = 3

Reactivity = 1

· **HMIS rating system (0-4)**



Health = \*2

Flammability = 3

Reactivity = 1

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 107-83-5 EINECS: 203-523-4	hexane (containing < 5 % n-hexane (203-777-6)) Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	25-50%
CAS: 96-14-0 EINECS: 202-481-4	3-methylpentane Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 79-29-8 EINECS: 201-193-6	2,3-dimethylbutane Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol F R11 Flam. Liq. 2, H225;  Carc. 1A, H350	2.5-10%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light T Carc. Cat. 2, Muta. Cat. 2 R45-46;  Xn R65 Flam. Liq. 2, H225;  Muta. 1B, H340;  Carc. 1B, H350;  Asp. Tox. 1, H304	2.5-10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas, H280	2.5-10%
CAS: 75-83-2 EINECS: 200-906-8	2,2-dimethylbutane Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
CAS: 110-54-3 EINECS: 203-777-6	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	2.5-10%
CAS: 67-56-1 EINECS: 200-659-6	methanol T R23/24/25-39/23/24/25;  F R11 Flam. Liq. 2, H225;  Acute Tox. 3, H301;  Acute Tox. 3, H311;  Acute Tox. 3, H331;  STOT SE 1, H370	≤ 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** 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**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**



Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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**  
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 against electrostatic charges.  
Use explosion-proof apparatus / fittings and spark-proof tools.

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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.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurized containers.

Store in a cool location.

Use only receptacles specifically permitted for this substance/product.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **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:**

**107-83-5 hexane (containing < 5 % n-hexane (203-777-6)) (25-50%)**

REL Long-term value: 350 mg/m<sup>3</sup>, 100 ppm  
Ceiling limit value: 1800\* mg/m<sup>3</sup>, 510\* ppm  
\*15-min

TLV Short-term value: 3500 mg/m<sup>3</sup>, 1000 ppm  
Long-term value: 1760 mg/m<sup>3</sup>, 500 ppm

**96-14-0 3-methylpentane (10-25%)**

REL Long-term value: 350 mg/m<sup>3</sup>, 100 ppm  
Ceiling limit value: 1800\* mg/m<sup>3</sup>, 510\* ppm  
\*15-min

TLV Short-term value: 3500 mg/m<sup>3</sup>, 1000 ppm  
Long-term value: 1760 mg/m<sup>3</sup>, 500 ppm

**79-29-8 2,3-dimethylbutane (2.5-10%)**

REL Long-term value: 350 mg/m<sup>3</sup>, 100 ppm  
Ceiling limit value: 1800\* mg/m<sup>3</sup>, 510\* ppm  
\*15-min

TLV Short-term value: 3500 mg/m<sup>3</sup>, 1000 ppm  
Long-term value: 1760 mg/m<sup>3</sup>, 500 ppm

**64-17-5 ethanol (2.5-10%)**

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

**124-38-9 carbon dioxide (2.5-10%)**

PEL Long-term value: 9000 mg/m<sup>3</sup>, 5000 ppm

REL Short-term value: 54.000 mg/m<sup>3</sup>, 30.000 ppm  
Long-term value: 9000 mg/m<sup>3</sup>, 5000 ppm

TLV Short-term value: 54.000 mg/m<sup>3</sup>, 30.000 ppm  
Long-term value: 9000 mg/m<sup>3</sup>, 5000 ppm

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### 75-83-2 2,2-dimethylbutane (2.5-10%)

REL	Long-term value: 350 mg/m <sup>3</sup> , 100 ppm Ceiling limit value: 1800* mg/m <sup>3</sup> , 510* ppm *15-min
TLV	Short-term value: 3500 mg/m <sup>3</sup> , 1000 ppm Long-term value: 1760 mg/m <sup>3</sup> , 500 ppm

### 110-54-3 n-hexane (2.5-10%)

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

### 67-56-1 methanol (≤ 2.5%)

PEL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI

#### · **Ingredients with biological limit values:**

### 110-54-3 n-hexane (2.5-10%)

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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### 67-56-1 methanol (≤ 2.5%)

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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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**

- 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 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

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- **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:**

<b>Form:</b>	Aerosol
<b>Color:</b>	Colorless
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol

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

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

- **Ignition temperature:** 300 °C (572 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

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

- **Explosion limits:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.0 Vol %

- **Vapor pressure at 20 °C (68 °F):** 339 hPa (254 mm Hg)

- **Density:** Not determined

- **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:**

<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.

- **Solvent content:**

- **Organic solvents:** 80-90 %

- **Solids content:** 8-12 %

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- **Other information** The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

### \* 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.

- **Carcinogenic categories**

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

64-17-5 ethanol

1

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Also poisonous for fish and plankton in water bodies.

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- Toxic for aquatic organisms
- **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

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** 1950 Aerosols, ENVIRONMENTALLY HAZARDOUS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 2.1
- **Label** 2.1
- **ADR**
- 
- **Class** 2.1 5F
- **Label** 2.1

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· **IMDG, IATA**

· **Class** 2.1  
 · **Label** 2.1

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

· **Environmental hazards:** Product contains environmentally hazardous substances: hexane (containing < 5 % n-hexane (203-777-6))  
 · **Marine pollutant:** Yes  
 · **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Not applicable.  
 · **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

· **IMDG**  
 · **Limited quantities (LQ)** 1L  
 · **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS, 2.1

## 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)**

110-54-3 n-hexane

67-56-1 methanol

· **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)**

110-54-3 n-hexane

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

None of the ingredients is listed.

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

All ingredients are listed.

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

All ingredients are listed.

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

All ingredients are listed.

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

All ingredients are listed.

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

All ingredients are listed.

· **Existing Chemical Substances (-)**

Naphtha (petroleum), hydrotreated light

2-202

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

· **Hazard pictograms**



GHS02    GHS04    GHS07    GHS08

· **Signal word** Danger

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

hexane (containing &lt; 5 % n-hexane (203-777-6))

ethanol

Naphtha (petroleum), hydrotreated light

n-hexane

· **Hazard statements**

Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

Suspected of damaging 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.

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· **Technical instructions (air):**

Class	Share in %
I	4.4
III	5.5
NK	12.0

· **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** 05/14/2015 / -

· **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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Liquefied gas

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

Acute Tox. 3: Acute toxicity, Hazard Category 3

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

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

Carc. 1A: Carcinogenicity, Hazard Category 1A

Carc. 1B: Carcinogenicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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