



# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: March 12, 2019

Revision: September 25, 2018

## 1 Identification

- **Product identifier**
- **Trade name:** White Rhino
- **Article number:** DAC116
- **Recommended use and restriction on use**
- **Recommended use:** Metal surface treatment
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
DAC Industries, Inc.  
1636 Gervais Avenue Suite 9  
Maplewood, MN 55109  
Phone: (651) 748-1750
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
- |                 |      |   |
|-----------------|------|---|
| Flam. Aerosol 1 | H222 | Extremely flammable aerosol.  |
| Press. Gas      | H280 | Contains gas under pressure; may explode if heated.   |
| Skin Irrit. 2   | H315 | Causes skin irritation.   |
| Eye Irrit. 2B   | H320 | Causes eye irritation.  |
| Repr. 2         | H361 | Suspected of damaging fertility or the unborn child.  |
| STOT SE 3       | H336 | May cause drowsiness or dizziness.  |
| STOT RE 2       | H373 | May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation. |
| Asp. Tox. 1     | H304 | May be fatal if swallowed and enters airways.   |

- **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 statements:**  
H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H315+H320 Causes skin and eye irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.

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- H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- H304 May be fatal if swallowed and enters airways.
- Precautionary statements:**
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** There are no other hazards not otherwise classified that have been identified.

### 3 Composition/information on ingredients

**Chemical characterization: Mixtures**

**Components:**

68476-86-8	Petroleum gases, liquified, sweetened ⚠ Flam. Gas 1, H220 ⚠ Press. Gas, H280	70-80%
110-54-3	n-hexane ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Eye Irrit. 2B, H320	20-30%
64742-89-8	Solvent naphtha (petroleum), light aliph. ⚠ Asp. Tox. 1, H304	<10%

**Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

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## 4 First-aid measures

### · Description of first aid measures

#### · After inhalation:

Supply fresh air.

Seek immediate medical advice.

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 is experienced, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

#### · Most important symptoms and effects, both acute and delayed:

Breathing difficulty

Dizziness

Coughing

Irritant to skin and mucous membranes.

Irritating to eyes.

Gastric or intestinal disorders when ingested.

#### · Danger:

May be fatal if swallowed and enters airways.

Danger of impaired breathing.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

#### · Indication of any immediate medical attention and special treatment needed:

If swallowed or in case of vomiting, danger of entering the lungs.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

## 5 Fire-fighting measures

### · Extinguishing media

#### · Suitable extinguishing agents:

Foam

Gaseous extinguishing agents

Fire-extinguishing powder

Water fog / haze

#### · For safety reasons unsuitable extinguishing agents: Water stream.

#### · Special hazards arising from the substance or mixture

Danger of receptacles bursting because of high vapor pressure if heated.

Formation of toxic gases is possible during heating or in case of fire.

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- **Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information:**
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered containers with water fog.
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

## 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.
  - Keep away from ignition sources.
  - Protect from heat.
- **Environmental precautions**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**
  - Allow to evaporate.
  - Absorb liquid components with non-combustible liquid-binding material.
  - Send for recovery or disposal in suitable receptacles.
- **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:**
  - Avoid splashes or spray in enclosed areas.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Use only in well ventilated areas.
  - Handle with care.
  - Avoid contact with the eyes and skin.
  - Avoid breathing mist, vapors, or spray.
  - Keep out of reach of children.
- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
  - Do not spray on a naked flame or any incandescent material.
  - Emergency cooling must be available in case of nearby fire.
- **Conditions for safe storage, including any incompatibilities**

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- **Requirements to be met by storerooms and receptacles:**  
Storage area should be dry and well-ventilated.  
Avoid storage near extreme heat, ignition sources or open flame.  
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:**  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**

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

**110-54-3 n-hexane**

PEL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 180 mg/m <sup>3</sup> , 50 ppm
TLV (USA)	Long-term value: 176 mg/m <sup>3</sup> , 50 ppm Skin; BEI
EL (Canada)	Long-term value: 20 ppm Skin
EV (Canada)	Long-term value: 176 mg/m <sup>3</sup> , 50 ppm
LMPE (Mexico)	Long-term value: 50 ppm PIEL, IBE

- **Ingredients with biological limit values:**

**110-54-3 n-hexane**

BEI (USA)	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2,5-Hexanedione without hydrolysis
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- **Exposure controls**
- **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.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Engineering controls:** Provide adequate ventilation.
- **Breathing equipment:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**

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Protective gloves

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

- **Eye protection:**



Safety glasses

Follow OSHA or EU guidelines concerning the use of protective eyewear.

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No relevant information available.

- **Risk management measures** No relevant information available.

## 9 Physical and chemical properties

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

- **Appearance:**

Form: Aerosol

Color: White

- **Odor:** Solvent-like

- **Odor threshold:** Not determined.

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

- **Melting point/Melting range:** Not applicable, as aerosol.

- **Boiling point/Boiling range:** Not applicable, as aerosol.

- **Flash point:** -91 °C (-131.8 °F)

- **Flammability (solid, gaseous):** Extremely flammable aerosol.

- **Auto-ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

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

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- **Oxidizing properties:** Non-oxidizing.

- **Vapor pressure:** Not determined.

- **Density:**

Relative density: 0.84

Vapor density: Not determined.

Evaporation rate: Not applicable.

- **Solubility in / Miscibility with**

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<b>Water:</b>	Not miscible or difficult to mix.
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· <b>Partition coefficient (n-octanol/water) at 20 °C (68 °F):</b>	>1.0 log POW
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· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions**  
Develops readily flammable gases / fumes.  
Extremely flammable aerosol.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Reacts violently with oxidizing agents.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** Based on available data, the classification criteria are not met.

- **Carcinogenic categories**

<b>IARC (International Agency for Research on Cancer):</b>	
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None of the ingredients are listed.
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<b>NTP (National Toxicology Program):</b>	
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None of the ingredients are listed.
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<b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>	
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None of the ingredients are listed.
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- **Probable route(s) of exposure:**

Inhalation.  
Eye contact.

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- Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** May cause drowsiness or dizziness.
- **STOT-repeated exposure:**  
May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Toxic to aquatic life with long lasting effects.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Contact waste processors for recycling information.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                       |                     |
|---------------------------------------|---------------------|
| · <b>UN-Number</b>                    |                     |
| · <b>DOT, ADR/RID/ADN, IMDG, IATA</b> | UN1950              |
| · <b>UN proper shipping name</b>      |                     |
| · <b>DOT</b>                          | Aerosols            |
| · <b>ADR/RID/ADN, IMDG</b>            | AEROSOLS            |
| · <b>IATA</b>                         | Aerosols, flammable |
| · <b>Transport hazard class(es)</b>   |                     |

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· DOT



· Class 2.1  
· Label 2.1

· ADR/RID/ADN



· Class 2 5F  
· Label 2.1

· IMDG, IATA



· Class 2.1  
· Label 2.1

· Packing group Aerosols are not assigned a packing group.

· Environmental hazards Product contains environmentally hazardous substances: n-hexane

· Marine pollutant:



Yes

· 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:

· DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· ADR/RID/ADN

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Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L.

## 15 Regulatory information

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

- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

110-54-3 | n-hexane

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

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

110-54-3 | n-hexane

||

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

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## 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.

· **Date of preparation / last revision** March 12, 2019 / -

· **Abbreviations and acronyms:**

ADR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Gas 1: Flammable gases – Category 1

Flam. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

· **Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))

Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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