



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 02/02/2015

Reviewed on 02/02/2015

## 1 Identification

- **Product identifier**
- **Trade name:** Wear Guard 2000
- **Article number:** DAC 206
- **Application of the substance / the mixture** Lubricant
- **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, +1 (813)248-0585

## 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.



Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS04 GHS07

- **Signal word** Danger

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

Zinc Dialkyldithiophosphate

- **Hazard statements**

H222 Extremely flammable aerosol.

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H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

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

P251 Pressurized container: Do not pierce or burn, even after use.

P261 Avoid breathing mist, vapors, or spray.

P280 Wear protective gloves and eye protection.

P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).

- **Additional information:**

Asphyxiant gas.

Contains Zinc Dialkyldithiophosphate. May produce an allergic reaction.

- **Hazard description:**

- **WHMIS-symbols:**

A - Compressed gas

B5 - Flammable aerosol

D2B - Toxic material causing other toxic effects



- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 4

Reactivity = 3

- **HMIS-ratings (scale 0 - 4)**



Health = \*3

Fire = 4

Reactivity = 3

- **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.

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· **Dangerous components:**

75-28-5	isobutane  	50-100%
74-98-6	propane  	10-25%
110-54-3	Hexanes  	<10%
68649-42-3	Zinc Dialkyldithiophosphate  	<5.0%

· **Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

In cases of frostbite, rinse with plenty of water. Do not remove clothing.

· **After eye contact:**

Protect unharmed eye.

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.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

Headache

Coughing

Breathing difficulty

Dizziness

Frostbite

Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

Allergic reactions

· **Danger**

Danger of pulmonary edema.

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- Danger of impaired breathing.
- Danger of pneumonia.
- May cause drowsiness or dizziness.
- **Indication of any immediate medical attention and special treatment needed**
- Medical supervision for at least 48 hours.
- Treat frost-bitten areas appropriately.
- Treat skin and mucous membrane with antihistamine and corticoid preparations.
- Contains Zinc Dialkyldithiophosphate. May produce an allergic reaction.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - Carbon dioxide
  - Gaseous extinguishing agents
  - Alcohol resistant foam
  - Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
  - Danger of receptacles bursting because of high vapor pressure if heated.
- **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.
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
  - Cool endangered receptacles with water fog.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Ensure adequate ventilation.
  - Wear protective equipment. Keep unprotected persons away.
  - 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 with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Dispose contaminated material as waste according to item 13.
  - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
  - See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

Keep away from heat and direct sunlight.

- **Information about protection against explosions and fires:**

Do not spray on a naked flame or any incandescent material.

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.

Emergency cooling must be available in case of nearby fire.

Keep respiratory protective device available.

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

- **Storage:**

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

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

- **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.

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Storage Temperatures : <122 ° F / <50 °C.

- **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:**

**75-28-5 isobutane**

TLV (USA)	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
EV (Canada)	Long-term value: 800 ppm

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**74-98-6 propane**

PEL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	refer to Appendix F: minimal oxygen content
EL (Canada)	Long-term value: 1000 ppm
EV (Canada)	Long-term value: 1.000 ppm
LMPE (Mexico)	(c)

**110-54-3 Hexanes**

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: 176 mg/m <sup>3</sup> , 50 ppm

· **Ingredients with biological limit values:****110-54-3 Hexanes**

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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· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **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:** No further relevant information available.· **Breathing equipment:**

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

· **Protection of hands:**

Protective gloves

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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- **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:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment** Avoid release to the environment.

### 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

- **Form:**

Aerosolized liquid with compressed gas in cylinders

- **Color:**

Colorless

- **Odor:**

Solvent-like

- **Odor 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:**

-104 °C (-155 °F) (PMCC)

- **Flammability (solid, gaseous):**

Not applicable.

- **Auto-ignition temperature:**

460 °C (860 °F)

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not self-igniting.

- **Danger of explosion:**

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

- **Explosion limits:**

- **Lower:**

1.7 Vol %

- **Upper:**

10.9 Vol %

- **Vapor pressure at 20 °C (68 °F):**

8300 hPa (6226 mm Hg)

- **Density at 20 °C (68 °F):**

0.58 g/cm<sup>3</sup> (4.84 lbs/gal)

- **Relative density**

Not determined.

- **Vapour density**

Not determined.

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- **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.
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Extremely flammable aerosol.  
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.  
Reacts with strong acids and alkali.  
Develops readily flammable gases / fumes.  
Danger of receptacles bursting because of high vapor pressure if heated.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Sulfur oxides (SOx)  
Chlorine compounds  
Hydrogen chloride (HCl)

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitization possible through skin contact.  
Sensitizing effect through inhalation is possible with prolonged exposure.
- **Additional toxicological information:**  
Irritant

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Danger through skin absorption.

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Toxic and/or corrosive effects may be delayed up to 24 hours.

Contains Zinc Dialkyldithiophosphate. May produce an allergic reaction.

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Probable Routes of Exposure**

Inhalation.

Eye contact.

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** Vapors have narcotic effect.

- **Repeated Dose Toxicity:**

Repeated exposure may result in skin sensitivity.

May cause damage to organs through prolonged or repeated exposure.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** The product contains materials that are harmful to the environment.

- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Harmful to fish

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

Danger to drinking water if even small quantities leak into the ground.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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. Residual materials should be treated as hazardous.

- **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
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**

- **DOT**



- **Class** 2.1
- **Label** 2.1

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- **ADR**



- **Class** 2 5F Gases
- **Label** 2.1

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- **IMDG, IATA**



- **Class** 2.1
- **Label** 2.1
- **Packing group**
- **DOT, ADR, IMDG, IATA** Not Regulated

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- **Environmental hazards:**
- **Marine pollutant:** No
- **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.
- **UN "Model Regulation":** UN1950, Aerosols, 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.

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

110-54-3 | Hexanes

- **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 reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

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II

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

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **State Right to Know Listings**

None of the ingredients is listed.

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- **Canadian substance listings:**

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

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

110-54-3 | Hexanes

- **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.

- **Date of preparation / last revision** 02/02/2015 / -

- **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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

HMS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

- **Sources**

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