

Safety Data Sheet

acc. to HCS and GHS

1 Identification

- **Product identifier**
- **Trade name:** Chain Life
- **Application of the substance / the mixture** Lubricant
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Protect All, Inc.
7101 Jackson Road
Ann Arbor, MI 48103 USA
Phone: (734) 769-6000
- **Emergency telephone number:**
(800) 424-9300 (CHEMTREC-24 hrs)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Flammable Aerosol - Category 1 Liquefied gas
Aspiration Toxicity - Category 1

- **Label elements**
- **GHS label elements**

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

- **Hazard pictograms**



- **Signal word** Danger
- **Hazard statements**
Contains gas under pressure; may explode if heated.
Extremely flammable aerosol.
May be fatal if swallowed and enters airways.
- **Precautionary statements**
Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use personal protective equipment as required. IF EXPOSED OR CONCERNED: Get medical advice/attention.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

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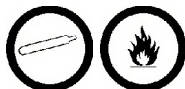
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Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**
- **WHMIS-symbols:**
A - Compressed gas
B5 - Flammable aerosol



- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



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



- * - Indicates a long term health hazard from repeated or prolonged exposures.
- **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:

| | | |
|------------|---|--------|
| 64742-53-6 | Distillates (petroleum), hydrotreated light naphthenic ⚠ Asp. Tox. 1, H304 | 25-50% |
| 75-37-6 | 1,1-difluoroethane ⚠ Press. Gas, H280 | <10% |
| 67762-38-3 | Fatty Acids Methyl Esters Blend ⚠ Eye Irrit. 2A, H319 H227 | <10% |
| 63449-39-8 | Hydrocarbon waxes, chlorinated | <10% |

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4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Provide oxygen treatment if affected person has difficulty breathing.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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

If skin irritation continues, 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.

Do not induce vomiting; immediately call for medical help.

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

Headache

Dizziness

Acne

Breathing difficulty

Coughing

Frost bites

Nausea

- **Danger**

Danger of impaired breathing.

Danger of pulmonary edema.

Danger of disturbed cardiac rhythm.

Condition may deteriorate with alcohol consumption.

- **Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

If necessary oxygen respiration treatment.

Later observation for pneumonia and pulmonary edema.

Medical supervision for at least 48 hours.

Contains chlorinated hydrocarbons..

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Alcohol resistant foam

Fire-extinguishing powder

Gaseous extinguishing agents

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- Carbon dioxide
- Water fog / haze
- Water spray
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
 - During heating or in case of fire poisonous gases are produced.
 - 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**
 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 - Eliminate all ignition sources if safe to do so.
 - 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.
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation.
 - Particular danger of slipping on leaked/spilled product.
 - Protect from heat.
 - Keep away from ignition sources.
- **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 liquid-binding material.
 - Send for recovery or disposal in suitable receptacles.
 - Remove from the water surface (e.g. skim or suck off).
- **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

- **Precautions for safe handling**
 - Keep away from heat and direct sunlight.
 - Avoid splashes or spray in enclosed areas.
 - Avoid the formation of oil haze.
- **Information about protection against explosions and fires:**
 - Do not spray on a naked flame or any incandescent material.
 - Protect against electrostatic charges.

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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, well-ventilated location.

Observe official regulations on storing packagings with pressurized containers.

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:**

Protect from heat and direct sunlight.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not inhale gases / fumes / aerosols.

Keep away from tobacco products.

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

· **Breathing equipment:**

For spills, respiratory protection may be advisable.

Use suitable respiratory protective device when high concentrations are present.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· **Protection of hands:**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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

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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:** Oil resistant protective clothing

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

No further relevant information available.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Aerosol

Color:

Amber colored

· **Odor:**

Petrol-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

<95°F / 35 °C (<203°F / 95 °F)

· **Flash point:**

Not applicable, as aerosol.

· **Flammability (solid, gaseous):**

Highly flammable.

· **Auto-ignition temperature:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Not determined.

· **Explosion limits:**

Lower:

4.9 Vol %

Upper:

20.2 Vol %

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

5100 hPa (3825 mm Hg)

· **Density at 20 °C (68 °F):**

0.9 g/cm³ (7.511 lbs/gal)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate at 20 °C (68 °F)**

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- **Solubility in / Miscibility with Water:** Fully miscible.
- **Partition coefficient (n-octanol/water) at 20 °C (68 °F):** > 3.0 log POW (Estimate-liquid)
- **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 and direct sunlight.
 - Avoid temperatures above 120 °F / 49 °C.
 - No decomposition if used and stored according to specifications.
 - Danger of receptacles bursting because of high vapor pressure if heated.
- **Possibility of hazardous reactions**
 - Reacts with strong oxidizing agents.
 - Reacts with reducing agents.
 - Flammable.
 - Reacts with oxidizing agents.
 - Toxic fumes may be released if heated above the decomposition point.
 - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
 - Danger of receptacles bursting because of high vapor pressure if heated.
- **Conditions to avoid**
 - Keep away from heat and direct sunlight.
 - Store away from oxidizing agents.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Hydrogen fluoride
 - Fluorocarbons
 - Chlorine compounds

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - on the skin:** Slight irritant effect on skin and mucous membranes.
 - on the eye:** Slight irritant effect on eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 - May cause acne.

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Danger through skin absorption.

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

· **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **Repeated Dose Toxicity:** May cause damage to organs through prolonged or repeated exposure.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** The material is harmful to the environment.

· **Persistence and degradability** Not easily biodegradable

· **Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

· **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.

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Avoid transfer into the environment.

Harmful to aquatic organisms

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.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

· **Uncleaned packagings:**

· **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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14 Transport information

| | |
|---|-----------------------|
| · UN-Number | UN1950 |
| · DOT, ADR, IMDG, IATA | |
| · 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 |
| · ADR | |
|  | |
| · Class | 2 5F Gases |
| · Label | 2.1 |
| · IMDG, IATA | |
|  | |
| · Class | 2.1 |
| · Label | 2.1 |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 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 |

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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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is 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)

None of the ingredients is listed.

· 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· State Right to Know Listings

None of the ingredients is listed.

· 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%)

None of the ingredients is listed.

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· **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** 12/5/2017 / Rev. 4

· **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
 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)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
 Press. Gas: Gases under pressure: Liquefied gas
 : Flammable liquids, Hazard Category 4
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

· **Sources**

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