# DAC Industries, Inc.
# Safety Data Sheet

## 1. Identification

**Product name:** Universal All Purpose Degreaser

**Product code:** DAC-103

**Recommended use:** Degreasing product

**Restrictions on use:** None known

**Supplier:** DAC Industries, Inc.
1636 Gervais Avenue - Suite 9
Maplewood, MN 55109, USA
T +1 (651) 748-1750

**Emergency number:** (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US),
1-703-527-3887 (Outside the US),
Chemtrec - Mexico 01-800-681-9531

**Issue date:** 03/01/2023

## 2. Hazard(s) identification

### Classification:

| Physical hazards | Health hazards |
|---|---|
| Flammable aerosol Category 1<br>Gases under pressure Compressed gas | Skin corrosion/irritation Category 2<br>Eye irritation Category 2<br>Reproductive toxicity Category 2<br>Specific target organ toxicity – Single exposure, Category 3, Narcosis<br>Specific target organ toxicity (repeated exposure) Category 2<br>Aspiration hazard Category 1 |

### GHS US labeling:

Danger!

| Hazard statements (GHS US) | Precautionary statements (GHS US) |
|---|---|
| H222 - Extremely flammable aerosol<br>H280 - Contains gas under pressure; may explode if heated<br>H304 - May be fatal if swallowed and enters airways<br>H315 - Causes skin irritation<br>H319 - Causes serious eye irritation<br>H336 - May cause drowsiness or dizziness<br>H361 - Suspected of damaging fertility or the unborn child | P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 - Do not spray on an open flame or other ignition source. |

| | |
|---|---|
| H373 - May cause damage to organs (Neurologic effect, hearing sense) through prolonged or repeated exposure (Inhalation) | P251 - Pressurized container: Do not pierce or burn, even after use.<br>P260 - Do not breathe vapors, mist.<br>P264 - Wash hands thoroughly after handling.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P280 - Wear protective gloves, eye protection.<br>P301+P310 - If swallowed: Immediately call a poison center or doctor.<br>P331 - Do NOT induce vomiting.<br>P302+P352 - If on skin: Wash with plenty of soap and water.<br>P332+P313 - If skin irritation occurs: Get medical advice/attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>P312 - Call a poison center or doctor if you feel unwell.<br>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 - If eye irritation persists: Get medical advice/attention.<br>P308+P313 - If exposed or concerned: Get medical advice/attention.<br>P405 - Store locked up.<br>P410+P403 - Protect from sunlight. Store in a well-ventilated place.<br>P412 - Do not expose to temperatures exceeding 50 °C/ 122 °F.<br>P501 - Dispose of contents/container to an approved waste disposal plant. |

## 3: Composition/Information on ingredients

| Component | CAS-No. | Amount (%) |
|---|---|---|
| Acetone | 67-64-1 | 30-40 |
| Heptane, branched, cyclic and linear | 426260-76-6 | 25-35 |
| Isobutane | 75-28-5 | 25-30 |
| Propan-2-ol, isopropyl alcohol, isopropanol | 67-63-0 | 5-10 |
| heptane, n-heptane | 142-82-5 | 5-10 |
| Propane | 74-98-6 | 1-5 |
| Toluene | 108-88-3 | <2 |

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret**

## 4. First-aid measures

**Inhalation**: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

**Skin**: Wash skin with plenty of water and soap. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

**Eyes**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**: Aspiration hazard. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

**Symptoms/effects**: May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways. Aspiration hazard. Suspected of damaging fertility or the unborn child. May cause damage to organs (Neurologic effect, hearing sense) through prolonged or repeated exposure (inhalation).

**Immediate medical attention and special treatment, if necessary**: If accidentally swallowed obtain immediate medical attention.

## 5. Fire-fighting measures

**Suitable extinguishing media**: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide. Cool down the containers exposed to heat with a water spray.

**Unsuitable extinguishing media**: Do not use a solid water stream as it may scatter and spread fire.

**Fire hazard**: Extremely flammable aerosol. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Pressurized container: may burst if heated. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Special protective equipment and precautions for fire-fighters**: Use shielding to protect from bursting cans. Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe aerosol. Avoid contact with eyes, skin and clothing.

**Methods and material for containment and cleaning up**: Collect spillage. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13 : "Disposal considerations".

## 7. Handling and storage

**Precautions for safe handling**: Ensure adequate ventilation. Do not breathe mist, vapours, spray. Avoid contact with eyes, skin and clothing. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle in accordance with good industrial hygiene and safety procedures. Obtain special instructions before use. Use personal protective equipment as required.

**Storage conditions**: Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect from sunlight. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. U.F.C. (NFPA 30B) Level III Aerosol.

## 8. Exposure controls/personal protection

**Exposure guidelines:**

| | |
|---|---|
| Acetone | 2400 mg/m³ TWA OSHA PEL; 1000 ppm TWA OSHA PEL; 250 ppm TWA ACGIH TLV; 500 ppm STEL ACGIH TLV; |
| heptane, n-heptane | 2000 mg/m³ TWA OSHA PEL; 500 ppm TWA OSHA PEL; 400 ppm TWA ACGIH TLV; 500 ppm STEL ACGIH TLV; |
| Propan-2-ol, isopropyl alcohol, isopropanol | 980 mg/m³ TWA OSHA PEL; 400 ppm TWA OSHA PEL; 200 ppm TWA ACGIH TLV; 400 ppm STEL ACGIH TLV; |
| Heptane, branched, cyclic and linear | None established. |
| Toluene | 200 ppm TWA OSHA PEL; 300 ppm Ceiling OSHA; 20 ppm TWA ACGIH TLV; |
| Isobutane | 1000 ppm (EX - Explosion hazard) STEL ACGIH TLV; |
| Propane | 1800 mg/m³ TWA OSHA PEL; 1000 ppm TWA OSHA PEL; |

**Appropriate engineering controls**: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Environmental exposure controls**: Do not allow product to spread into the environment.

**Personal protective equipment:**

**Hand protection**: Wear suitable gloves

**Eye protection**: Use suitable eye protection

**Skin and body protection**: Wear suitable protective clothing

**Respiratory protection**: No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

## 9. Physical and chemical properties

**Appearance:** Aerosol spray can.

**Physical state** : Liquid

**Color** : Clear, colorless liquid

**Odor** : petroleum-like odor

**Odor threshold** : No data available

**pH** : No data available

**Melting point** : No data available

**Freezing point** : No data available

**Boiling point** : -42 °C (-43.6 °F)

**Flash point** : < -104 °C (-155.2 °F)

**Relative evaporation rate (butyl acetate=1)** : No data available

**Flammability** : Extremely flammable aerosol.

**Vapor pressure** : No data available

**Relative vapor density at 20°C** : No data available

**Relative density** : No data available

**Solubility** : Not miscible.

**Partition coefficient n-octanol/water (Log Pow)** : No data available

**Auto-ignition temperature** : 425 °C (797 °F)

**Decomposition temperature** : No data available

**Viscosity, kinematic** : No data available

**Viscosity, dynamic** : No data available

**Explosion limits** : Lower explosion limit: 2.6 vol %
Upper explosion limit: 13 vol %

**Explosive properties** : No data available

**Oxidizing properties** : Not oxidising.

No additional information available

## 10. Stability and reactivity

**Reactivity**: Extremely flammable aerosol.

**Chemical stability**: Stable under normal conditions.

**Possibility of hazardous reactions**: No dangerous reactions known under normal conditions of use.

**Conditions to avoid**: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**Incompatible materials** : Strong oxidizing agents. Acids. Strong bases. Strong reducing agents.

**Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Inhalation**: May cause drowsiness or dizziness. At high concentrations, the vapors can be irritating to the respiratory system.

**Skin**: Causes skin irritation.

**Eyes**: Causes serious eye irritation.

**Ingestion**: Aspiration hazard. May be fatal if swallowed and enters airways.

**Chronic symptoms**: Suspected of damaging fertility or the unborn child. May cause damage to organs (Neurologic effect, hearing sense) through prolonged or repeated exposure (Inhalation)

| | |
|---|---|
| **Carcinogenicity**: | Not classified |
| Acetone: | This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. |
| heptane, n-heptane: | This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. |
| Propan-2-ol, isopropyl alcohol, isopropanol: | IARC 3 - Not classifiable; |
| Heptane, branched, cyclic and linear: | This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. |
| Toluene: | IARC 3 - Not classifiable; |
| Isobutane: | This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. |
| Propane: | This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. |
| **Germ cell mutagenicity**: | Not classified |
| **Reproductive toxicity**: | Suspected of damaging fertility or the unborn child. |

**Acute toxicity (oral)** : Not classified

**Acute toxicity (dermal)** : Not classified

**Acute toxicity (inhalation)** : Not classified

**Numerical measures of toxicity**:

**The following are the toxicity values for the components:**

| | |
|---|---|
| Acetone | 5800 mg/kg LD50 oral rat<br>76 mg/l LC50 Inhalation - Rat |

| | |
|---|---|
| heptane, n-heptane | > 5000 mg/kg LD50 oral rat<br>> 2000 mg/kg LD50 dermal rabbit<br>> 29300 mg/m³ LC50 Inhalation - Rat |
| Propan-2-ol, isopropyl alcohol, isopropanol | 5840 mg/kg LD50 oral rat<br>16.4 ml/kg LD50 dermal rabbit<br>666.66 ppm/1h LC50 Inhalation – Rat |
| Heptane, branched, cyclic and linear | No data available |
| Toluene | 5580 mg/kg LD50 oral rat<br>> 5000 mg/kg LD50 dermal rabbit<br>28.1 mg/l/4h LC50 Inhalation - Rat |
| Isobutane | > 20000 ppm/4h LC50 Inhalation - Rat |
| Propane | > 20000 ppm/4h LC50 Inhalation – Rat |

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Serious eye damage/irritation** | Causes serious eye irritation. |
| **Respiratory or skin sensitization** | Not classified |
| **STOT-single exposure** | May cause drowsiness or dizziness. |
| **STOT-repeated exposure** | May cause damage to organs (Neurologic effect, hearing sense) through prolonged or repeated exposure (Inhalation). |
| **Aspiration hazard** | May be fatal if swallowed and enters airways. |

## 12. Ecological information

**Ecology - general**: Very toxic to aquatic life with long lasting effects.

**Ecotoxicity**:

| | |
|---|---|
| Acetone | ≥ 79 mg/l Daphnia magna (Water flea) NOEC (chronic) |
| heptane, n-heptane | 3.9 mg/l EC50 – Crustacea<br>0.17 mg/l Daphnia magna Duration: '21 d' NOEC (chronic) |
| Propan-2-ol, isopropyl alcohol, isopropanol | 10000 mg/l Pimephales promelas (Fathead minnow) LC50 – Fish<br>9640 mg/l Pimephales promelas (Fathead minnow) LC50 – Fish<br>> 10000 mg/l EC50 – Crustacea<br>3.37 mg/l NOEC chronic crustacea |
| Toluene | 5.5 mg/l Oncorhynchus kisutch LC50 - Fish<br>7.63 mg/l Oncorhynchus mykiss (Rainbow trout) LC50 - Fish<br>3.78 mg/l EC50 - Crustacea<br>10 mg/l EC50 72h - Algae<br>0.74 mg/l Ceriodaphnia dubia Duration: '7 d' NOEC (chronic)<br>1.39 mg/l Oncorhynchus kisutch Duration: '40 d' NOEC chronic fish<br>0.74 mg/l NOEC chronic crustacea |

| | |
|---|---|
| **Persistence and degradability**: | No data available |
| Propan-2-ol, isopropyl alcohol, isopropanol: | Readily biodegradable. |
| **Bioaccumulative potential**: | No data available |

| | |
|---|---|
| Propan-2-ol, isopropyl alcohol, isopropanol: | BCF Fish - 3; Log KOW0.05 |
| **Mobility in soil**: | No data available |

**Other adverse effects**:

No data available

## 13. Disposal considerations

**Regional legislation (waste)**: Dispose of in accordance with applicable federal, state, and local regulations.

**Additional information**: Empty containers retain product residue and can be hazardous.

## 14. Transport information

**Department of Transportation (DOT)**

| | |
|---|---|
| **Proper Shipping Name (DOT)** | : Aerosols |
| **UN-No.(DOT)** | : UN1950 |
| **Class (DOT)** | : 2.1 |
| **Packing group (DOT)** | : Not applicable |
| **Hazard labels (DOT)** | : Flammable gas |
| **Dangerous for the environment** | : Yes |

**Transport by sea**

| | |
|---|---|
| **Proper Shipping Name (IMDG)** | : AEROSOLS |
| **UN-No. (IMDG)** | : 1950 |
| **Class (IMDG)** | : 2 |
| **Packing group (IMDG)** | : Not applicable |
| **Marine pollutant** | : Yes |

**Air transport**

| | |
|---|---|
| **Proper Shipping Name (IATA)** | : Aerosols, flammable |
| **UN-No. (IATA)** | : 1950 |
| **Class (IATA)** | : 2 |
| **Packing group (IATA)** | : Not applicable |

## 15. Regulatory information

**SARA Section 313 - Emission Reporting:** Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|---|---|---|
| Toluene | 108-88-3 | <2% |

**CERCLA Section 103:**

| | | |
|---|---|---|
| Acetone | 67-64-1 | 5000 lb |
| Toluene | 108-88-3 | 1000 lb |

**SARA 302:**

Not applicable

**SARA Section 311/312 Hazard Classes:** Refer to Section 2 for OSHA Hazard Classification.

**California Proposition 65:**

**WARNING:** This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**TSCA:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

## 16. Other information

Issue date : 03/01/2023

| Indication of changes: |
| --- |
| new version. |

**NOTICE**

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or the consequences of its use or misuse.