DAC Industries, Inc.
Safety Data Sheet

1. Identification

Product name: Universal II All Purpose Cleaner/Degreaser

Product code: DAC-353

Recommended use: Cleaner

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 Gases under pressure Compressed gas	Skin corrosion/irritation Category 2 Eye irritation Category 2 Reproductive toxicity Category 2 Specific target organ toxicity – Single exposure, Category 3, Narcosis Specific target organ toxicity (repeated exposure) Category 2 Aspiration hazard Category 1

GHS US labeling:

Danger!

Hazard statements (GHS US)	Precautionary statements (GHS US)
H222 - Extremely flammable aerosol H280 - Contains gas under pressure; may explode if heated H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H361 - Suspected of damaging fertility or the unborn child	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. P260 - Do not breathe mist, vapors. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, eye protection. P301+P310 - If swallowed: Immediately call a poison center or doctor. P331 - Do NOT induce vomiting. P302+P352 - If on skin: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P312 - Call a poison center or doctor if you feel unwell. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P308+P313 - If exposed or concerned: Get medical advice/attention. P405 - Store locked up. P410+P403 - Protect from sunlight. Store in a well-ventilated place. P412 - Do not expose to temperatures exceeding 50 °C/ 122 °F. P501 - Dispose of contents/container to an approved waste disposal plant.

3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Acetone	67-64-1	40-50
Heptane, branched, cyclic and linear	426260-76-6	30-40
Propan-2-ol, isopropyl alcohol, isopropanol	67-63-0	1-10
Carbon dioxide (CO_2) (Propellant gas (Aerosol))	124-38-9	1-10
heptane, n-heptane	142-82-5	1-10
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. Causes eye irritation. Causes skin irritation. Aspiration hazard. May be fatal if swallowed and enters airways. May cause damage to organs (Neurologic effect, hearing sense) through prolonged or repeated exposure (inhalation). Suspected of damaging fertility or the unborn child.

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: None.

Fire hazard: 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: Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Do not breathe aerosol. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

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:	
Carbon dioxide (CO2)	9000 mg/m³ TWA OSHA PEL; 5000 ppm TWA OSHA PEL; 5000 ppm TWA ACGIH TLV; 30000 ppm STEL ACGIH TLV;

Acetone	2400 mg/m³ TWA OSHA PEL; 1000 ppm TWA OSHA PEL; 250 ppm TWA ACGIH TLV; 500 ppm STEL ACGIH TLV;
Heptane, branched, cyclic and linear	None established.
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;
Toluene	200 ppm TWA OSHA PEL; 300 ppm Ceiling OSHA; 20 ppm TWA ACGIH TLV;

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	**Solubility**	: completely miscible.
Color	: Clear, colorless liquid	**Partition coefficient n-octanol/water (Log Pow)**	: No data available
Odor	: Solvents		
Odor threshold	: No data available		
pH	: No data available	**Auto-ignition temperature**	: 240 °C (464 °F)
Melting point	: No data available	**Decomposition temperature**	: No data available
Freezing point	: No data available	**Viscosity, kinematic**	: No data available
Boiling point	: 65 °C (149 °F)	**Viscosity, dynamic**	: No data available
Flash point	: < -18 °C (-0.4 °F)	**Explosion limits**	: Lower explosion limit: 1.2 vol % Upper explosion limit: 13 vol %
Relative evaporation rate (butyl acetate=1)	: No data available	**Explosive properties**	: No data available
Flammability	: Extremely flammable aerosol.	**Oxidizing properties**	: Not oxidising.
Vapor pressure	: No data available		
Relative vapor density at 20°C	: No data available		
Relative density	: 0.7		

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.

Skin: Causes skin irritation.

Eyes: Causes serious eye irritation.

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

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

Carcinogenicity:	Not classified
Carbon dioxide (CO2):	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.
Acetone:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.
Heptane, branched, cyclic and linear:	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;
Toluene:	IARC 3 - Not classifiable;
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:

Carbon dioxide (CO2)	No data available
Acetone	5800 mg/kg LD50 oral rat 76 mg/l LC50 Inhalation - Rat
Heptane, branched, cyclic and linear	No data available

heptane, n-heptane	> 5000 mg/kg LD50 oral rat > 2000 mg/kg LD50 dermal rabbit > 29300 mg/m³ LC50 Inhalation - Rat
Propan-2-ol, isopropyl alcohol, isopropanol	5840 mg/kg LD50 oral rat 16.4 ml/kg LD50 dermal rabbit 1666.66 ppm/1h LC50 Inhalation – Rat
Toluene	5580 mg/kg LD50 oral rat > 5000 mg/kg LD50 dermal rabbit 28.1 mg/l/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 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 9640 mg/l Pimephales promelas (Fathead minnow) LC50 – Fish > 10000 mg/l EC50 – Crustacea 3.37 mg/l NOEC chronic crustacea
Toluene	5.5 mg/l Oncorhynchus kisutch LC50 - Fish 7.63 mg/l Oncorhynchus mykiss (Rainbow trout) LC50 - Fish 3.78 mg/l EC50 - Crustacea 10 mg/l EC50 72h - Algae 0.74 mg/l Ceriodaphnia dubia Duration: '7 d' NOEC (chronic) 1.39 mg/l Oncorhynchus kisutch Duration: '40 d' NOEC chronic fish 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.