SAFETY DATA SHEET

CONFORMS TO OSHA HAZARD COMMUNICATION STANDARD (HCS) 29 CFR 1910.1200

Revision Date 2/22/2017
Supersedes Date 10/3/2016

SECTION 1. IDENTIFICATION

Product identifier: **JAX Peel-Off Degreaser (Aerosol)**

Part number: JAX211

Identified uses: Cleaner and degreaser for use in non food processing areas where there is no possibility of solvent vapors entering a processing area.

Uses advised against: Any use not specified above, or any use specified against elsewhere in this SDS.

Supplier:
Pressure-Lube Inc. JAX
W134 N5373 Campbell Drive
Menomonee Falls, WI 53051 USA

Email contact: info@jax.com

Non-emergency contact: Phone: 262-781-7660 Fax: 262-781-3906

Emergency telephone: **INFOTRAC:**
North America 1-800-535-5053 **Australia** 1-300-366-961 **Germany** 0800-181-2926
International 011-1-352-323-3500 (collect) **China** 400-120-0761

SECTION 2. HAZARD(S) IDENTIFICATION

Classification: Gases under Pressure (Compressed Gas); Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Repr. Toxicity 1B; STOT SE 3 (Resp. Tract Irrit.); STOT SE 3 (Narcotic Effects); STOT RE 2; Carc. 1B

Label elements

PIctograms:

Signal word: Danger

Hazard statements: Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May cause cancer.

Precautionary statements: Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not breathe fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN 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. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. If exposed or concerned: Call a poison center/ doctor. Protect from sunlight. Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Hazards not otherwise classified: Toxic to aquatic life with long lasting effects.

Additional information: 4.8 % by mass of the contents are flammable.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Composition:

Chemical name	%	CAS #	Impurities
1-Bromopropane	50-100	106-94-5	None
d-Limonene	1-<5	8028-48-6	None
Propan-1-ol	1-<6	71-23-8	None
t-Butanol	<1	75-65-0	None
1,2-Butylene oxide	<1	106-88-7	None

SECTION 4. FIRST-AID MEASURES

First aid measures

Eye contact: Remove contact lenses, if wearing, and flush eyes with water for at least 15 minutes or until irritation subsides. If irritation persists, consult a physican. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

Skin contact: Immediately wash with water and soap and rinse thoroughly. If irritation persists, consult a physician. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

Ingestion: Do not induce vomiting; call for medical help immediately. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

Inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in the recovery position. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

Most important symptoms and effects, both acute and delayed: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May cause cancer.

Indication of any immediate medical attention and special treatment available: See First aid measures (above).

General information: No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguishing media include dry chemical, alcohol foam, and carbon dioxide. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.

Unsuitable extinguishing media: Do not use direct stream of water.

Specific hazards: Contains gas under pressure; may explode if heated. Use water spray to keep containers cool.

Advice for firefighters: Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined space or as otherwise needed.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep away from ignition sources. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Prevent entry into sewers, waterways or confined areas by diking or impounding. Dike far ahead of spill for later recovery and disposal. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

Methods for containment and cleaning up Absorb with liquid-binding material. Ensure adequate ventilation. Dispose contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry place in tightly sealed containers. Observe official regulations on storing packagings with pressurized containers. Store out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or other sources of ignition. Do not store where temperature may exceed 49°C (120°F). Store away from oxidizing agents. Rotate stock.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits:

Chemical name	Exposure limit and source
1-Bromopropane	Not available
d-Limonene	Not available
Propan-1-ol	Short-term value: 625 mg/m³, 250 ppm Long-term value: 500 mg/m³, 200 ppm
t-Butanol	Not available
1,2-Butylene oxide	Not available

Exposure controls

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapors below their respective occupational exposure limits.

Ventilation: Use in a well-ventilated area. See Engineering Controls.

Personal hygiene: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.

Eye protection: Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.

Hand protection: Any lined non-permeable rubber gloves.

Respiratory protection: In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / odor:	Clear with citrus solvent odor	**Upper flammability limit:**	Not available
		Lower flammability limit:	Not available
Physical state:	Liquid and compressed gas in aerosol can	**Vapor pressure:**	Not available
Odor threshold:	Not available	**Vapor density:**	Not available
pH:	Not available		
Melting / freezing point:	Not available	**Relative density:**	1.32 (typical)
Initial boiling point and boiling range:	Not available	**Solubility in water:**	Not available
Flash point:	Not available	**Partition coefficient (n-octanol/water):**	Not available
Evaporation rate:	Not available	**Autoignition temperature:**	Not available
		Decomposition temperature:	Not available
Flammability (solid, gas):	Not applicable	**Viscosity:**	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended conditions.

Possibility of hazardous reactions: Hazardous reactions are not expected to occur.

Conditions and materials to avoid: Avoid high temperatures and open flames. Avoid contact with caustics, strong oxidizers, strong mineral acids, and acidic agents (including clay). Prolonged contact with aluminum, magnesium, and zinc metals should be avoided. May attack some plastics, rubber and coatings. Thoroughly test for all applications before use.

Hazardous decomposition products: Bromide and/or hydrogen bromide, hydrogen halide, carbon monoxide and carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact: Causes serious eye irritation.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Inhalation: May cause drowsiness or dizziness. May cause respiratory irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause cancer.

Ingestion: May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Component information:

Components	LD_{50}	LC_{50}
1-Bromopropane	Not available	253 mg/l/4h (inhalation, rat)
d-Limonene	>2 g/kg (oral, rat)	Not available
Propan-1-ol	1870 mg/kg (oral, rat)	Not available
t-Butanol	3500 mg/kg (oral, rat)	Not available
1,2-Butylene oxide	500 mg/kg (oral, rat)	Not available

Information on physical, chemical and toxicological effects

Symptoms: See Section 4 of this SDS for symptoms.

Delayed and immediate effects, and chronic effects, from short and long-terms exposure

Effects: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: 1-Bromopropane (n-propyl bromide) is classified as NTP Group R: reasonably anticipated to be a human carcinogen.
1,2-Butylene oxide is classified as IARC Group 2B: possibly carcinogenic to humans.

Numerical measures of toxicity: Not determined

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Component information:

Components	$L(E)C_{50}$
1-Bromopropane	Not available
d-Limonene	0.1-1 mg/l (fish and daphnia magna)
Propan-1-ol	Not available
t-Butanol	Not available
1,2-Butylene oxide	Not available

Persistence and degradability: Not determined

Bioaccumulative potential: Not determined

Mobility in soil: Do not allow product to reach ground water, water course or sewage system, even in small quantities. Dangerous to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

Other adverse effects: Not determined

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Consult national or regional authorities for proper disposal and reporting procedures.

SECTION 14. TRANSPORTATION INFORMATION

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

	Proper Shipping Name:	UN Number:	Hazard Class:	Packing Group:	Remarks:
U.S. D.O.T.	Aerosols, non-flammable	UN1950	2.2	None	None
ADR/RID	Aerosols, environmentally hazardous	UN1950	2.2	None	None
IMDG	Aerosols (d-Limonene), Marine Pollutant	UN1950	2.2	None	None
IATA	Aerosols, non-flammable	UN1950	2.2	None	None

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA Section 302 Extremely Hazardous Substances: This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:
None

SARA Section 304 CERCLA Hazardous Substances: Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is subject to reporting to the National Response Center under CERCLA:
None

SARA Section 313 Toxic Chemicals: This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:
1,2-Butylene oxide, CAS # 106-88-7, present at <1%

TSCA Inventory: All components of this material are on the U.S. TSCA Inventory.

U.S. State Regulations

California Proposition 65 Status: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.

California Proposition 65 Listed Components: 1-Bromopropane

International Regulations

Canada: This product has been classified in accordance with the hazard criteria of WHMIS 2015 and the SDS contains all of the information required by those regulations.

Japan MITI: Not available

Australia: Not available

Switzerland: Not available

SECTION 16. OTHER INFORMATION

Sections Revised: Sections 2, 3, 4, 11 and 15.

Revision Date: 2/22/2017

The information and recommendations contained herein are, to the best of Pressure-Lube Inc. JAX's knowledge and belief, accurate and reliable as of the date issued. Pressure-Lube Inc. JAX makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and Pressure-Lube Inc. JAX shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with Pressure-Lube Inc. JAX's interpretation of the available data.

*** END OF SDS ***