


SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1683	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	KNOCK OUT II	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Aerosol Heavy-Duty Foaming Degreaser	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Gases Under Pressure - Liquefied Gas Carcinogenicity - Category 1B Germ Cell Mutagenicity - Category 1B Skin Sensitizer - Category 1	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:

Physical: H280 - Contains gas under pressure; may explode if heated.
Health: H350 - May cause cancer.
H340 - May cause genetic defects.
H317 - May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS:

General: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Prevention: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P261 - Avoid breathing mist, vapors or spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.

Response: P308 + P313 - IF exposed or concerned: Get medical attention.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 - If skin irritation or a rash occurs: Get medical attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage: P405 - Store locked up.
P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Petroleum gases, liquefied, sweetened	68476-86-8	2% - 5%
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	2% - 4%
ODORLESS MINERAL SPIRITS	64741-65-7	0.1% - 2%
D-LIMONENE	5989-27-5	0.1% - 2%
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	0.1% - 2%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

SKIN: Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention.

INHALATION:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned. Eliminate all ignition sources, if safe to do so.

INGESTION:

Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No data available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

No data available.

5. Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA:

Dry chemical, foam, carbon dioxide. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only. Do not direct a solid stream of water or foam into hot, burning pools. This may result in frothing and increased fire intensity.

UNSUITABLE EXTINGUISHING MEDIA:

No data available.

SPECIFIC HAZARDS IN CASE OF FIRE:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water. Empty Containers retain product residue which may exhibit hazards of material; therefore do not pressurize, cut, glaze, weld or use for any other purposes. Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

FIRE-FIGHTING PROCEDURES:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SPECIAL PROTECTIVE ACTIONS:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental Release Measures

EMERGENCY PROCEDURE:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

RECOMMENDED EQUIPMENT:

Wear liquid tight chemical protective clothing in combination with positive pressure self-contained breathing apparatus (SCBA).

PERSONAL PRECAUTIONS:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

ENVIRONMENTAL PRECAUTIONS:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Absorb liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

7. Handling and Storage

GENERAL:

Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally.

VENTILATION REQUIREMENTS:

Use in a well-ventilated place.

STORAGE ROOM REQUIREMENTS:

Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

8. Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

Skin Protection: Use solvent-resistant protective gloves for prolonged or repeated contact.

Respiratory Protection: In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

APPROPRIATE ENGINEERING CONTROLS

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
DIETHYLENE GLYCOL MONOBUTYL ETHER									10(IFV)
ODORLESS MINERAL SPIRITS	2000	500					1	[(L)]; [5 (I)];	(L)
Petroleum gases, liquefied, sweetened	2000	500					1		

Chemical Name	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	ACGIH TWA (ppm)	NIOSH Carcinogen
DIETHYLENE GLYCOL MONOBUTYL ETHER				Hematologic, liver & kidney eff						
ODORLESS MINERAL SPIRITS			[A2]; [A4];	URT irr	[A2]; [A4];					
Petroleum gases, liquefied, sweetened										

C) - Ceiling limit, (IFV) - Inhalable fraction and vapor, (L) - Exposure by all routes should be carefully controlled to levels as low as possible, A3 -Confirmed) Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, dam - Damage, DSEN - Dermal sensitization, eff - Effects, irr - Irritation, repro - reproductive, URT -Upper respiratory tract

9. Physical & Chemical Properties

Appearance:	N/A	Flammability(solid/gas):	Flash point below 73°F/23°C
Odor:	N/A	Explosive Limit-Lower (%):	N/A
Odor Threshold:	N/A	Explosive Limit-Upper (%):	N/A
pH:	N/A	Vapor Density:	N/A
Melting/Freezing Point:	N/A	Solubility (water):	N/A
Boiling Point/Range:	N/A	Auto-Ignition Temp:	N/A
Viscosity:	N/A	Decomposition Point:	N/A
Flash Point:	N/A	% VOC:	6.08%
Flash Point Symbol:	N/A	Density:	7.99 lb/gal
Evaporation Rate:	Slower than ether	Density VOC:	0.49 lb/gal

10. Stability & Reactivity Information**CHEMICAL STABILITY:**

Stable under normal storage and handling conditions.

CONDITIONS TO AVOID:

Avoid heat, sparks, flame, high temperature and contact with incompatible materials. Dropping containers may cause bursting.

INCOMPATIBLE MATERIALS:

Avoid strong oxidizers, reducers, acids, and alkalis.

HAZARDOUS REACTIONS/POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information**SKIN CORROSION/IRRITATION:**

No data available.

LIKELY ROUTE OF EXPOSURE:

Inhalation, ingestion, skin absorption.

SERIOUS EYE DAMAGE/IRRITATION:

No data available.

CARCINOGENICITY:

May cause cancer.

GERM CELL MUTAGENICITY:

May cause genetic defects.

REPRODUCTIVE TOXICITY:

No data available.

RESPIRATORY/SKIN SENSITIZATION:

May cause an allergic skin reaction.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

No data available.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

No data available.

ASPIRATION HAZARD:

No data available.

ACUTE TOXICITY:

No data available.

POTENTIAL HEALTH EFFECTS – MISCELLANEOUS:**ETHYLENE GLYCOL MONOBUTYL ETHER 0000111-76-2**

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother

ODORLESS MINERAL SPIRITS 0064741-65-7

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)

LC50 (male rat): 486 ppm (4-hour exposure) (2)

LD50 (oral, male weanling rat): 3000 mg/kg (1)

LD50 (oral, 6-week old male rat): 2400 mg/kg (1)

LD50 (oral, yearling male rat): 560 mg/kg (1)

LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1) LD50 (oral, male mouse): 1230 mg/kg (1)

LD50 (oral, rabbit): 320 mg/kg (1)

LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

0000109-86-4 2-METHOXYETHANOL

LC50 (mouse): 1480 ppm (7-hour exposure) (1)

LD50 (oral, rat): 2460 mg/kg (19); 3250 mg/kg (18)

LD50 (oral, guinea pig): 950 mg/kg (18,19)

LD50 (oral, rabbit): 890 mg/kg (18)

LD50 (dermal, rabbit): 1300 mg/kg (cited as 1.34 mL/kg) (24-hours contact)(18)

12. Ecological Information**TOXICITY:**

No data available.

PERSISTENCE AND DEGRADABILITY:

No data available.

BIOACCUMULATIVE POTENTIAL:

No data available.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

CONTAMINATED PACKAGING:

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14. Transportation Information**DOT:****UN Number:** UN1950**UN Proper Shipping Name:** Aerosols**Transport Hazard Class(es)****Class:** 2.2**Packing Group:** N.A.**Hazardous Substance (RQ):** No data available.**Marine Pollutant:** No data available.**Note/Special Provision:** (LTD QTY)**Toxic-Inhalation Hazard:** No data available.**IATA:****UN Number:** UN1950**UN Proper Shipping Name:** Aerosols, non-flammable**Transport Hazard Class(es)****Class:** 2.2**Packing Group:** N.A.**Note/Special Provision:** (LTD QTY)**Hazardous Substance (RQ):****IMDG:****UN Number:** UN1950**UN Proper Shipping Name:** Aerosols**Transport Hazard Class(es)****Class:** 2.2**Packing Group:** N.A.

Marine Pollutant: No data available.

Note/Special Provision: (LTD QTY)

Hazardous Substance (RQ):

15. Regulatory Information

US. FEDERAL REGULATIONS:

CAS	Chemical Name	% By Weight	Regulation List
68476-86-8	Petroleum gases, liquefied, sweetened	2% - 5%	SARA312, TSCA, OSHA
112-34-5	DIETHYLENE GLYCOL MONOBUTYL ETHER	2% - 4%	SARA313, CERCLA, HAPS, SARA312, VHAPS, VOC, TSCA, ACGIH
64741-65-7	ODORLESS MINERAL SPIRITS	0% - 2%	SARA312, VOC, TSCA, ACGIH, OSHA
5989-27-5	D-LIMONENE	0% - 2%	SARA312, VOC, TSCA
68647-72-3	Terpenes and Terpenoids, sweet orange-oil	0% - 2%	SARA312, TSCA
6834-92-0	SODIUM METASILICATE	0% - 0%	SARA312, TSCA
78-70-6	1,6-Octadien-3-ol, 3,7-dimethyl-	Trace	SARA312, TSCA
5392-40-5	2,6-Octadienal, 3,7-dimethyl-	Trace	SARA312, TSCA, ACGIH
111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	Trace	SARA313, CERCLA, SARA312, VOC, TSCA, ACGIH, OSHA
109-86-4	2-METHOXYETHANOL	Trace	SARA313, CERCLA, HAPS, SARA312, VHAPS, VOC, TSCA, ACGIH, California Proposition 65 Developmental - Toxicity Male, OSHA

16. Other Information

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94- 469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER:

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