SAFETY DATA SHEET

Freezer Locker Cleaner **Revision Date** 12/20/2014

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME **Freezer Locker Cleaner** **PRODUCT USE** Freezer Cleaner **ITEM** 818

COMPANY NAME Abernathy Company **Office** (800) 962-7498

3800 Abernathy Drive **Fax** (870) 772-2908

Texarkana AR 71854 **Web** www.abernathycompany.com

EMERGENCY TELEPHONE NUMBER **INFOTRAC** **(800) 535-5053**

SECTION – 2 HAZARDS INFORMATION

PHYSICAL HAZARDS FLAMMABLE LIQUIDS-Category 2

HEALTH HAZARDS EYES-Category 2A, SKIN-Category 2, STOT SINGLE EXPOSURE-Category 1, ACUTE TOXICITY-Category 4 (Oral)


Flammables


Irritant (skin and eye)
Narcotic Effects


Target Organ Toxicity


Acute Toxicity

DANGER! Flammable Liquid and Vapor. Keep away from heat, sparks, open flames or hot surfaces. Vapors may cause flash fire Contains Methanol, Causes serious eye damage, Causes skin irritation, Toxic in contact with skin, Toxic if inhaled, Toxic if swallowed, Causes damage to, Central Nervous System, Optic Nerve, by skin absorption, ingestion, or inhalation, through single and/or prolonged or repeated exposure, effects may be delayed, Do not get in eyes, on skin, or clothing, and avoid inhalation, Do not allow smoking or food consumption while handling, Use proper Safety Equipment when handling, Wash thoroughly after handling, Avoid release into the environment, For industrial use only

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Methanol	Methyl Alcohol, Wood Alcohol	67-56-1	Water <1%	30 - 60%
2-butoxyethanol	Ethylene Glycol Monobutyl Ether	111-76-2		5 - 20%

SECTION – 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical attention, preferably from an ophthalmologist or Emergency Room

SKIN CONTACT Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes. Be sure to remove any contaminated clothing and wash before reuse. Immediate medical attention may be required. Consult with a physician.

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING, unless directed to do so by medical personnel. If person is conscious, rinse mouth with water. Immediate medical attention is required. Call a physician, Emergency Room or Poison Control center

Aspiration Hazard Not considered to be an aspiration hazard, If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into the lungs

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye irritation, Vapor effects or product eye contact can cause irritation experienced as discomfort, redness or pain

Skin May be harmful if absorbed through skin, Can cause skin irritation, drying and cracking

Inhalation Harmful if inhaled, Mists or vapors can cause irritation. May cause drowsiness or dizziness

Ingestion Harmful or fatal If swallowed. Can cause burning in the throat and stomach

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye irritation by product contact, mists or vapors. Causes painful sensitization to light, corneal injury, lesions or blurred vision. Overexposure can cause partial or complete blindness. Effects may be delayed

Skin Toxic amounts can be absorbed through skin, Skin absorption can affect target organs especially the optic nerve. Symptoms include sensitivity to light, blurred vision and possible blindness. Effects may be delayed

Inhalation Toxic if inhaled, May cause drowsiness or dizziness, Inhalation can affect the optic nerve and cause sensitivity to light, blurred vision and possible blindness. Effects may be delayed

Ingestion TOXIC! Harmful or fatal If swallowed. Ingestion can affect target organs especially the optic nerve. Can cause sensitivity to light, blurred vision and possible blindness. Effects may be delayed

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	Suitable: Use DRY chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials
Hazardous Decomposition	Burning or thermal decomposition can produce, aldehydes, carbon monoxide, carbon dioxide, formaldehyde, and other toxic fumes
Reactive With	Incompatible with, strong oxidizing agents, strong reducing agents, strong bases
Explosion Hazards	May flash if ignited in an enclosed area. Flashback along vapor trail may occur
Static Discharge	Expected to ignite product
Mechanical Impact	Not Expected to ignite product
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria	Flash point < 23 °C (73°F) and initial boiling point > 35°C (95°F)
NFPA	Class I B
GHS	Category 2
WHMIS	Class B2

NFPA HAZARD RATINGS

Health	2
Flammability	3
Reactivity	0
Personal Protection	FBG

SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Warn personnel to move away and stay upwind from spill
Personal Precautions	Eliminate ignition sources and ventilate area
Protective Equipment	Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots
Containment	Cover or dike any floor drains with an inert material to prevent product from entering the environment or spreading
Clean Up Procedures	Use sand or inert non-combustible absorbent pads or material and place in a chemical waste disposal container
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling	DANGER, FLAMMABLE LIQUID, TOXIC, Keep away from incompatible materials, heat, sparks, electrical equipment, fire and all ignition sources, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Toxic if absorbed through skin, Avoid inhalation of mist, vapors or fumes, Toxic if inhaled, Toxic if swallowed, Do not allow smoking and food consumption while handling, Wash thoroughly after handling, Avoid release to the environment, Avoid free fall of liquid, Ground containers when transferring, Empty containers are very hazardous, Do not flame cut, saw or drill. Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements
Storage	KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Vapors may spread long distances and ignite explosively, Store below 49ºC (120ºF) and in accordance with Class 1B Flammable Liquids (GHS Category 2)
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, strong acids

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	Significant Exposure
Methanol	200 ppm (260 mg/m3)	250 ppm (310 mg/m3)	250 ppm (310 mg/m3)		Skin
2-butoxyethanol	20 ppm		25 ppm (120 mg/m3)		Skin

PERSONAL PROTECTIVE EQUIPMENT

Chemical Safety Glasses, Goggles or Face Shield

Impervious Chemical Gloves

MSHA/NIOSH Approved Respirator At or Above Listed TLV's

Impervious Protective Clothing

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Eye Wash and Safety Shower (Recommended)

Ventilation

General Ventilation

Ventilate to keep vapors of this material below the lowest ppm listed above.
If over Threshold Limit Value use NIOSH approved respirator.

"Consulting with a Safety Equipment Supplier is recommended"

HMIS HAZARD RATINGS

Health	2
Flammability	3
Reactivity	0
Personal Protection	H

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	9.7°C (49.5 °F)	**Specific Gravity / Relative Density**	0.90
Flammable Limits	Lower 6.0%, Upper 36%	**Molecular Weight**	ND
Auto-Ignition Temp.	455°C (851°F)	**Initial Boiling Point**	ND
Physical State	Liquid	**Boiling Range**	ND
Appearance	Clear	**Vapor Pressure**	ND
Odor	Solvent	**Vapor Density**	ND
Odor Threshold	ND	**Freeze Point**	ND
Solubility	100%	**Melting Point**	ND
Volatiles	100%	**Partition Coefficient**	ND
VOC	< 51%	**Decomposition Temperature**	ND
pH (± 0.3)	7.8	**Evaporation Rate**	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49ºC (120ºF)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Heat sources, sparks, flame or static discharge and incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, strong acids
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, formaldehyde, and other toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes “Mist or Fumes”)

	ACUTE **SYMPTOMS OF SINGLE OVEREXPOSURE**
Eyes	Causes serious eye irritation, Vapor effects or product eye contact can cause irritation experienced as discomfort, redness or pain
Skin	May be harmful if absorbed through skin, Can cause skin irritation, drying and cracking
Inhalation	Harmful if inhaled, Mists or vapors can cause irritation. May cause drowsiness or dizziness
Ingestion	Harmful or fatal If swallowed. Can cause burning in the throat and stomach
CHRONIC	**SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE**
Eyes	Causes serious eye irritation by product contact, mists or vapors. Causes painful sensitization to light, corneal injury, lesions or blurred vision. Overexposure can cause partial or complete blindness. Effects may be delayed
Skin	Toxic amounts can be absorbed through skin, Skin absorption can affect target organs especially the optic nerve. Symptoms include sensitivity to light, blurred vision and possible blindness. Effects may be delayed
Inhalation	Toxic if inhaled, May cause drowsiness or dizziness, Inhalation can affect the optic nerve and cause sensitivity to light, blurred vision and possible blindness. Effects may be delayed
Ingestion	TOXIC! Harmful or fatal If swallowed. Ingestion can affect target organs especially the optic nerve. Can cause sensitivity to light, blurred vision and possible blindness. Effects may be delayed
Acute Tox Calculated	**Oral:** 307 mg/kg **Dermal:** 3,943 mg/kg **Inhaled:** 279 mg/L
Acute Tox Category	Category 4 (Oral >300, ≤2000 mg/kg), "Not applicable (Dermal > 2,000 mg/kg)", "Not applicable (Inhaled > 20 mg/L) Vapors"
Additional Info	NOTE: Intentional misuse by deliberately concentrating and inhaling this product can cause irreversible harm and possible death, Methanol is regarded as a cumulative poison because it is slowly eliminated from the body. Daily exposures may result in the accumulation of a harmful amount, Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness or coma. A person may get better but then worse up to 30 hours later. Overexposure can be fatal
Target Organs	Kidneys, Liver, Eyes (Lens or cornea), Central Nervous System, Optic Nerve
Medical Conditions	Preexisting, eye, skin, liver, kidney, central nervous system, respiratory, optic nerve, disorders may be aggravated by exposure to this product
Notes to Physician	In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
None Listed				

MUTAGENIC AND REPRODUCTIVE EFFECTS – May cause fetal and reproductive abnormalities.

CHEMICAL NAME	Germ Cell Mutagenicity	Toxic to Reproduction
None Listed		

SECTION – 11 TOXICOLOGICAL INFORMATION - CONTINUED

ACUTE TOXICITY	Type	Form	Subject	Result Value	Exposure Time	GHS Category
2-butoxyethanol	LD50	Oral	Rat	470 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	220 mg/kg		3 (>200, ≤1000 mg/kg)
	LC50	Inhaled	Rat	450 ppm	4 Hour	4 (>10, ≤20 mg/L)
Methanol	LD50	Oral	Rat	1187 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	17100 mg/kg		(>2000 mg/kg)
	LDLO	Oral	Human	143 mg/kg		3 (>50, ≤300 mg/kg)
	LD50	Inhaled	Rat	128.2 mg/L	4 Hours	(>20 mg/L)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject	Subject Latin	Result Value	Exposure Time	GHS Category
2-butoxyethanol	EC50	Water Flea	(Daphnia magna)	1815 mg/L	24 Hours	4 (>100 mg/L)
	LC50	Bluegill	(Lepomis macrochirus)	220 mg/L	96 Hours	4 (>100 mg/L)
Methanol	LC50	Bluegill	(Lepomis macrochirus)	15400 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Fathead Minnow	(Pimephales promelas)	29.4 g/L	96 Hours	4 (>100 mg/L)
	LC50	Rainbow Trout	(Oncorhynchus mykiss)	8000 mg/L	48 Hours	4 (>100 mg/L)

Presistence And Degradability This product is inherently biodegradable according to the OECD definition

Bioaccumulative Potential Rapidly biodegradable in aerobic conditions

Mobility In Soil This material is a mobile liquid

Other Adverse Effects When released into the soil, methanol is expected to readily biodegrade and leach into groundwater and is expected to have a half life of between 1 and 10 days

SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER
Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

ENVIRONMENTAL FATE

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the composition containing in some or all of its components.

Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste.

The transportation, storage, treatment and disposal of RCRA waster material must be conducted in compliance with 40 CFR 262, 263, 264 and 270. Disposal can only occur in properly permitted facilities.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate.

SECTION – 14 TRANSPORT INFORMATION

D.O.T. CLASSIFICATION

UN Number	Proper Shipping Name
UN 1992	FLAMMABLE LIQUIDS, TOXIC, n.o.s. (Methanol)

Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response Code	Marine Pollutant
3, 6.1	PG II	Flammable Liquids, Toxic	5000	131	No

Placard Label

Hazard Label

Secondary .

SECTION – 15 REGULATORY INFORMATION

TSCA

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Methanol	Yes	Yes		Yes
2-butoxyethanol	Yes	Yes		

REPORTABLE QUANTITIES

	Extremely Hazardous		Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Methanol			5000	Yes	U154	
Glycol Ethers				Yes		

SARA

	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Methanol	Yes	Yes	Yes	Yes		
2-butoxyethanol	Yes	Yes	Yes	Yes		

RIGHT TO KNOW

	STATE												
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Methanol	Yes					Yes		Yes			Yes		
2-butoxyethanol						Yes		Yes			Yes		

CALIFORNIA WARNING! This product contains chemicals known to the state of California to cause:

CHEMICAL NAME	CAS #	Birth Defects	Reproductive Harm	Carcinogen	Developmental
Methanol	67-56-1				Yes

CLEAN AIR WATER ACTS

		Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS #	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Methanol	67-56-1	Yes					

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Methanol	Yes	Yes	Yes	Yes	Yes	Yes
2-butoxyethanol	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

CHEMICAL NAME	DSL	Class	Description
Methanol	Yes	B-2	Flammable Liquids; Flashpoint < 37.8° C (100°F)
		D-1B	Materials Causing Immediate and Serious Toxic Effects; Toxic Material
		D-2A	Materials Causing Other Toxic Effects; Very Toxic Material
2-butoxyethanol, Methanol	Yes	D-2B	Materials Causing Other Toxic Effects; Toxic Material

DSCL (EEC)

Code	Definition (R-Phrases / S-Phrases)
R10	Flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
S2	Keep out of the reach of children
S15	Keep away from heat
S16	Keep away from sources of ignition - No smoking
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S38	In case of insufficient ventilation wear suitable respiratory equipment
S61	Avoid release to the environment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S20/21	When using do not eat, drink or smoke
S24/25	Avoid contact with skin and eyes
S29/35	Do not empty into drains; dispose of this material and its container in a safe way
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

SECTION – 16 OTHER INFORMATION

SDS	Legend Description		
ACGIH	American Conference of Governmental Industrial Hygienists	**LD50**	Dose that is lethal to 50% of a given species by a given route of exposure
CAS	Chemical Abstracts Service Registry	**LEL**	Lower Explosive Limit
CEIL	Ceiling Limit (15 minutes)	**NA**	Not Applicable
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	**ND**	Not Determined
EPA	Environmental Protection Agency	**NE**	Not Established
FBG	Full Bunker Gear	**NFPA**	National Fire Protection Association
HAP	California Hazardous air pollutant Clean Air Act	**NIOSH**	National Institute for Occupational Safety and Health
HMIS-A	Safety Glasses	**NTP**	National Toxicology Program
HMIS-B	Safety glasses, gloves	**OSHA**	Occupational Safety and Health Administration
HMIS-C	Safety glasses, gloves, chemical apron	**PEL**	Permissible Exposure Limit (OSHA)
HMIS-D	Face shield, gloves, chemical apron	**PP**	California Priority Pollutant under the Clean Water Act
HMIS-E	Safety glasses, gloves, dust respirator	**REL**	Recommended exposure limit (NIOSH)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	**SARA**	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	**STEL**	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	**TC Lo**	Air concentration that is lethal to 50% of a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	**TD Lo**	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	**TLV**	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	**TP**	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	**TSCA**	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	**TWA**	Time Weighted Average (8 hours)
IARC	International Agency for Research on Cancer	**UEL**	Upper Explosive Limit
LC50	Air concentration that is lethal to 50% of a given species in a given time	**WHMIS**	Worker Hazardous Materials Information System (Canada)

Abernathy Company

and nCites, L.L.C. have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

Supersedes Safety Data Sheet Dated 6/19/2014