GluDown® Foam Board Adhesive Low VOC

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: GluDown® Foam Board Adhesive Low VOC
Revision Date: October 20, 2023
Version: 1.0
Part Number: GD1516
Manufactured For:

GluDown, Inc.
1297 N Plano Road
Richardson, TX 75081
United States of America

Information Phone: 214-504-2503
Emergency Phone: Chemtrec 800-424-9300 / INTERNATIONAL 1-703-527-3887
Restriction on Use: For commercial use only – not packaged or labeled for home use.

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Specific Target Organ Toxicity – Repeated Exposure – Category 2
Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3
Aspiration Hazard – Category 1
Skin Irritation - Category 2
Eye Irritation - Category 2A
Chronic aquatic toxicity – Category 2
Aerosols - Category 1
Gases Under Pressure Liquefied Gas
Acute aquatic toxicity - Category 2
Acute toxicity Oral – Category 5
Reproductive Toxicity – Category 2

Safety data sheet prepared in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Pictograms:

Signal Word:

Danger

Hazardous Statements - Physical:

H222 - Extremely flammable aerosol

H229 - Pressurized container: May burst if heated.

H280 - Contains gas under pressure; may explode if heated.

Hazardous Statements - Health:

H303 - May be harmful if swallowed.

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.

H373 - May cause damage to organs through prolonged or repeated exposure.

Hazardous Statements - Environmental:

H411 - Toxic to aquatic life with long lasting effects.

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.

Precautionary Statements - Prevention:

P271 - Use only outdoors or in a well-ventilated area.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P233 - Keep container tightly closed.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P273 - Avoid release to the environment.

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.

P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER/doctor if you feel unwell.

P314 - Get Medical advice/attention if you feel unwell.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

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.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P321 - For specific treatment see section 4 of SDS.

P391 - Collect spillage.

Precautionary Statements - Storage:

P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

P405 - Store locked up.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403 + P405 - Store in a well-ventilated place. Store locked up.

Precautionary Statements - Disposal:

P501 - Dispose of contents/container to disposal recycling center. 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.

Hazards Not Otherwise Classified (HNOC):

None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENT

CAS	Chemical Name	% by Weight
0000110-54-3	HEXANE	25% - 38%
0000115-10-6	METHYL ETHER	20% - 32%
0000075-37-6	DIFLUOROETHANE	8% - 19%
0220543-67-9	Cyclopentene, polymer with 1-butene, (2E)-2-butene, (2Z)-2-butene, 2-methyl-1-propene and 1, 3-pentadiene	5% - 13%
0000110-82-7	CYCLOHEXANE	4% - 11%
0000079-20-9	METHYL ACETATE	2% - 5%
0003710-84-7	DIETHYL HYDROXYLAMINE	0.0% - 0.8%
0064742-94-5	AROMATIC HYDROCARBON MIXTURE >C9	Trace
0112926-00-8	SILICA – PRECIPITATED	Trace
0000091-20-3	NAPHTHALENE	Trace
0000092-52-4	BIPHENYL	Trace

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

SECTION 4: FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Skin Contact:

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 re-use.

IF exposed or concerned: Get medical advice/attention.

Eye Contact:

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.

Ingestion:

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

Most Important Symptoms and Effects, Acute or Delayed

No data available.

Immediate Medical Attention and Special Treatment, if necessary

No data available.

SECTION 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 increase fire intensity.

Unsuitable Extinguishing Media:

Not 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.

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 buildup 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.

Containers could potentially burst or be punctured upon mechanical impact.

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spilling/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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area).

Do not touch or walk through spilled material.

Isolate hazard areas 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. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in the immediate area). 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 with vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal.

SECTION 7: HANDLING AND STORAGE

General:

Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.
Store at temperatures below 120°F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of dangerous substances at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA-Tables-Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
AROMATIC HYDROCARBON MIXTURE >C9	500	2000			1							
BIPHENYL	0.2	1			1			0.2	1			
CYCLOHEXANE	300	1050			1			300	1050			
DIETHYL HYDROXYLAMINE												

DIFLUOROETHANE		2.5			1							
HEXANE	500	1800			1			50	180			
METHYL ACETATE	200	610			1			200	610	250	760	
NAPHTHALENE	10	50			1			10	50	15	75	
SILICA - PRECIPITATED	20 (b)	80 mg/m3 Percent SiO2+2			1, 3				6			

Chemical Name	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
AROMATIC HYDROCARBON MIXTURE >C9					(L)[N159](L)[N800]	[(L)[N159](L)[N800]]; [5 (I)[N159]5 (I)[N800]];		
BIPHENYL	1				0.2			
CYCLOHEXANE	1050				100			
DIETHYL HYDROXYLAMINE					2			
DIFLUOROETHANE						2.5		
HEXANE	180				50			
METHYL ACETATE	610	250	760		200		250	
NAPHTHALENE	50	15	75		10			
SILICA - PRECIPITATED	6							

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density VOC Less H2O and Exempts	4.69 lb/gal
VOC Regulatory (lb/gal)	3.92 lb/gal
VOC Actual (lb/gal)	470.19 g/l
VOC Regulatory (g/l)	470.19 g/l
Density	6.36 lb/gal
Density VOC	3.92 lb/gal
% VOC	61.70%
VOC Composite Partial Pressure	N/A
Appearance	N/A
Odor Threshold	N/A
Odor Description	N/A
pH	N/A
Flammability	N/A
Water Solubility	N/A
Flash Point Symbol	N/A

Flash Point	N/A
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Auto Ignition Temp	N/A
Evaporation Rate	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability:

Stable under normal storage and handling conditions.

Conditions to Avoid:

Avoid heat, sparks, flames, high temperature and contact with incompatible materials.

Dropping containers may cause bursting.

Hazardous Reactions/Polymerization:

Will not occur.

Incompatible Materials:

Avoid strong oxidizers, reducers, acids, and alkalis.

Hazardous Decomposition Products:

No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Route of Exposure:

Inhalation, ingestion, skin absorption.

Skin Corrosion/Irritation:

Prolonged or repeated contact with this product may dry and/or defat the skin.

This product may be harmful if it is absorbed through the skin.

0000110-54-3 HEXANE

The substance is irritating to the skin.

0000110-82-7 CYCLOHEXANE

May affect the central nervous system. May damage the liver and kidneys.

Serious Eye Damage/Irritation:

Eye contact may lead to permanent damage if not treated promptly.

Liquid or vapors may irritate the eyes.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

Causes serious eye irritation.

0000110-82-7 CYCLOHEXANE

Can irritate and burn the eyes.

Respiratory/Skin Sensitization:

Based on available data, the classification criteria are not met.

0000110-82-7 CYCLOHEXANE

Can irritate and burn the skin.

Germ Cell Mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Suspected of damaging fertility or the unborn child.

0000110-54-3 HEXANE

Animal tests show that this substance possibly causes toxic effects upon human reproduction.

Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness.

0000110-82-7 CYCLOHEXANE

Exposure can cause headache, dizziness, and lightheadedness.

Specific Target Organ Toxicity - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

0000110-54-3 HEXANE

Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the central nervous system and peripheral nervous system. This may result in polyneuropathy.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Aspiration Hazard:

May be fatal if swallowed and enters airways.

0000110-54-3 HEXANE

ASPIRATION causes severe lung irritation, coughing, pulmonary edema: excitement followed by depression.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

If liquid is swallowed, it may get into lungs by aspiration.

Acute Toxicity:

If inhaled, may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heartbeats.

May be harmful if swallowed.

0000110-54-3 HEXANE

INHALATION causes irritation of respiratory tract, cough, mild depression, cardiac arrhythmias. It has been reported that a 10-minute exposure to 5,000 ppm caused dizziness and a sensation of giddiness.

INGESTION causes nausea, vomiting, swelling of abdomen, headache, depression.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

High concentration of vapors may cause intoxication.

Likely Routes of Exposure:

Inhalation, Ingestion, Skin contact, Eye contact.

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

0000110-54-3 HEXANE

The substance can be absorbed into the body by inhalation of its vapor and by ingestion.

0000110-82-7 CYCLOHEXANE

Mildly irritating to the respiratory tract. If swallowed, aspiration into the lungs may result in chemical pneumonitis.

Potential Health Effects - Miscellaneous

0000091-20-3 NAPHTHALENE

Is an IARC, NTP or OSHA carcinogen. Tests in some laboratory animals demonstrate carcinogenic activity. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys, liver. Recurrent overexposure may result in liver and kidney injury. WARNING: This chemical is known to the State of California to cause cancer.

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

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.

0000110-82-7 CYCLOHEXANE

LD50 (oral, rat): 8-39 mL/kg (6200 to 30400 mg/kg) (3) LD50 (oral, mouse): 1300 mg/kg (3) LD50 (dermal, rabbit): Greater than 18000 mg/kg (4)

0000110-54-3 HEXANE

LC50 (male rat): 38500 ppm (4-hour exposure); cited as 77000 ppm (271040 mg/m3) (1-hour exposure) (15) LC50 (rat): 48000 ppm (4-hour exposure) (16) LC50 (rat): 73680 ppm (260480 mg/m3) (4-hour exposure) (n-hexane and isomers) (1,3) LD50 (oral, 14-day old rat): 15840 mg/kg (3) LD50 (oral, young rat): 32340 mg/kg (3) LD50 (oral, adult rat): 28700 mg/kg (3,16)

0000091-20-3 NAPHTHALENE

LC50: Insufficient data LD50 (oral, mouse): 533 mg/kg (male); 710 mg/kg (female) (1) LD50 (oral, rat): 1780 mg/kg (2)

0000079-20-9 METHYL ACETATE

LC50 (rat): 16000-32000 ppm (4-hour exposure) (9) LD50 (oral, rat): greater than 5000 mg/kg (4) LD50 (oral, rabbit): 3700 mg/kg (cited as 50 millimols/kg) (10) LD50 (skin, rabbit): greater than 5000 mg/kg (4)

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

LC50 (Rodent - rat, Inhalation) : >590 mg/m3 (4 hour exposure) Toxic effects : Details of toxic effects not reported other than lethal dose value. LD50 (Rodent - rabbit, Administration onto the skin) : >2 mL/kg ,Toxic effects : Behavioral - somnolence (general depressed activity) Behavioral - changes in motor activity (specific assay) Behavioral - irritability

0000092-52-4 BIPHENYL

LD50 (oral, rat): 3280 mg/kg (7); 5040 mg/kg (8)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

0000110-82-7 CYCLOHEXANE

Readily biodegradable

Persistence and Degradability:

0000110-54-3 HEXANE

Readily biodegradable in water.

0000110-82-7 CYCLOHEXANE

Readily biodegradable

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Readily biodegradable

Bio-accumulative Potential:

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

Has the potential to bioaccumulate.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

Results of the PBT and vPvB assessment

0000110-54-3 HEXANE

The substance is not PBT / vPvB

0000110-82-7 CYCLOHEXANE

The substance is not PBT / vPvB

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

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.

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.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT Information:

Ground Transportation: (Continental United States, Canada & Mexico): Limited Quantity

IMDG Information:

Shipping Name: Aerosols
UN/NA #: 1950
Hazard Class: 2.1
Required Placard: Limited Quantity
Marine Pollutant: No data available

IATA Information:

We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

SECTION 15: REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000110-54-3	HEXANE	25% - 38%	SARA313, Canada_NPRI,DSL,CERCLA,HAPS, SARA312,VHAPS,VOC,TSCA,CA_Pr op65 - California Proposition 65
0000115-10-6	METHYL ETHER	20% - 32%	Canada_NPRI,DSL,SARA312,VOC,TSCA
0000075-37-6	DIFLUOROETHANE	8% - 19%	DSL,SARA312,VOC_exempt,TSCA
0220543-67-9	Cyclopentene, polymer with 1- butene, (2E)-2-butene, (2Z)-2-butene, 2-methyl-1-propene and 1,3- pentadiene	5% - 13%	NDSL,SARA312,TSCA
0000110-82-7	CYCLOHEXANE	4% - 11%	SARA313, Canada_NPRI,DSL,CERCLA,SARA3 12,VOC,TSCA,RCRA
0000079-20-9	METHYL ACETATE	2% - 5%	DSL,SARA312,VOC_exempt,TSCA
0003710-84-7	DIETHYL HYDROXYLAMINE	0.0% - 0.8%	DSL,SARA312,VOC,TSCA
0112926-00-8	SILICA - PRECIPITATED	Trace	DSL,SARA312
0064742-94-5	AROMATIC HYDROCARBON MIXTURE >C9	Trace	Canada_NPRI, DSL, SARA312, VOC, TSCA
0000091-20-3	NAPHTHALENE	Trace	Canada_NPRI, DSL, CERCLA, HAPS, SARA312, OC_HAPS, VOC, TSCA, RCRA, CA_Prop65 - California Proposition 65

0000092-52-4	BIPHENYL	Trace	Canada_NPRI, DSL, CERCLA, HAPS, SARA312, OC_HAPS, VOC, TSCA

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

SECTION 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; N.A. - Not Available; 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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.