

SAFETY DATA SHEET

Turf-SetTM 718

Issue Date 06-Jul-2015

Revision Date 09-Jan-2018

Version 2

1. IDENTIFICATION

Product identifier

Product Name Turf-SetTM 718

Recommended use of the chemical and restrictions on use

Recommended Use Adhesive. For industrial use only.

Uses advised against No information available

Details of the supplier of the safety data sheet

Chemical Concepts, Inc.
410 Pike Road
Huntingdon Valley, PA 19006
Phone: 800-220-1966
Fax: 215-357-2754
www.chemical-concepts.com

EMERGENCY TELEPHONE NUMBER
INFOTRAC 1.800.535.5053

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

Label elements

Emergency Overview

Danger**Hazard statements**

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May cause respiratory irritation. May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
Highly flammable liquid and vapor

**Appearance** Viscous liquid**Physical state** Liquid**Odor** Solvent**Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Use explosion-proof electrical/ ventilating / lighting/ / equipment
Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
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 skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

4,4' -Methylenediphenyl diisocyanate (CAS 101-68-8) is a component within the isomer mixture referred to as Methylenediphenyl diisocyanate or MDI (CAS 26447-40-5).

Chemical name	CAS No.	Weight-%	Trade Secret
Methyl Ethyl Ketone	78-93-3	30 - 50	*
4,4' -Methylenediphenyl diisocyanate (MDI)	101-68-8	10 - 30	*
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1	*
Methylenediphenyl diisocyanate	26447-40-5	0.1 - 1	*
Toluene	108-88-3	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures****General advice**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Immediate medical attention is required.

Skin contact

Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash contaminated clothing before reuse.

Inhalation

Move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention immediately. If breathing is difficult, oxygen may be given by a qualified person. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required.

Ingestion

Do NOT induce vomiting. Call a physician and/or transport to emergency facility immediately. Immediate medical attention is required.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed**Symptoms**

Prolonged inhalation of high vapor concentration may result in a narcotic effect ranging from dizziness, nausea and headaches, to unconsciousness. Can cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, shortness of breath and coughing.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Maintain adequate ventilation and oxygenation of the patient. May cause respiratory

sensitization or asthma-like symptoms. Respiratory symptoms, including pulmonary edema, may be delayed. May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Small Fire Dry chemical or CO₂.

Large Fire Alcohol or all purpose foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

In the event of fire, cool tanks with water spray. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Nitrogen oxides (NO_x), Hydrogen cyanide, Carbon monoxide, Carbon dioxide (CO₂), Isocyanates

Explosion data

Sensitivity to Mechanical Impact No data available.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

Keep people away. Isolate fire and deny unnecessary entry. Stay up wind. Keep out of low areas where gases (fumes) can accumulate. Respiratory equipment should be worn to avoid inhalation of concentrated fumes. Water spray may be ineffective on the fire, but should be used to cool fire exposed containers and structures. Water spray should also be used to disperse vapors as reignition is possible. Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep personnel out of low areas. Keep upwind of spill. Spilled material may cause a slipping hazard. Ventilate area of leak or spill. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 13 for additional disposal information.

Methods and material for containment and cleaning up

Methods for containment Dike spill, absorb with inert material and collect for disposal.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

- Moisture Cure Urethane Adhesive**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Use non-sparking utensils when handling liquid materials. Use proper grounding procedures when transferring material. Keep containers closed when not using. Avoid contact with skin, eyes or clothing. Avoid repeated exposure. Avoid breathing Vapors. Keep container closed when not in use. Use with local exhaust ventilation.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Packaging materials

Keep only in the original container/package in a cool well-ventilated place.

Incompatible materials

Acids, Alcohols, Amines, Water, Ammonia, Bases, Aluminum, Avoid contact with Aluminum or Zinc. Reaction with these metals will generate corrosive gas

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

This product as supplied contains hazardous materials with occupational exposure limits established by the regional specific regulation authorities.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl Ethyl Ketone 78-93-3	STEL: 300 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 590 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m ³ (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m ³	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³
4,4' -Methylenediphenyl diisocyanate (MDI) 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m ³ regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	IDLH: 75 mg/m ³ Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m ³ 10 min TWA: 0.005 ppm TWA: 0.05 mg/m ³
Methylenediphenyl diisocyanate 26447-40-5	-	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m ³	-
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other Information - Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Use local exhaust to keep exposures at a minimum. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. The odor and irritancy of this material are inadequate to warn of excessive exposure. Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

Individual protection measures, such as personal protective equipment

Eye/face protection	Use chemical safety glasses, goggles, or face shields for protection. Eye wash stations should be in the immediate work area.
Skin and body protection	Impermeable chemical handling gloves should be worn. Use impermeable clothing whenever possible to prevent skin contact.
Respiratory protection	If spraying this material, use NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentrations below the time-weighted threshold limit values. General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below the TLV. Ventilation equipment should be explosion-proof. Atmospheric levels should be maintained below the exposure guideline. When atmospheric levels may exceed the exposure guideline, use an approved air purifying respirator equipped with an organic vapor sorbent and a particle filter.
General Hygiene Considerations	Handle all chemicals with caution and care. Always wash hands before eating, smoking, or using toilet facilities. As with all chemicals, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Liquid	Odor	Solvent
Appearance	Viscous liquid	Odor threshold	No information available
Color	Yellow to Amber		
Property	Values	Remarks • Method	
pH	No information available		
Melting point / freezing point	No information available		
Boiling point / boiling range	77 °C / 170.6 °F		
Flash point	-6 °C / 21.2 °F		
Evaporation rate	No information available	Faster than N-Butyl Acetate	
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	11.5 %		
Lower flammability limit:	1.5 %		
Vapor pressure	12.6 kPa	@20°C (kPa)	
Vapor density	No information available	Heavier than air	
Relative density	0.9415 g/cc		
Water solubility	Negligible		
Solubility in other solvents	Ketones and derivatives		
Partition coefficient	No information available		
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other Information			
Softening point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Liquid Density	7.84 lbs/gal		

Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity

Reacts with water, alcohols and hydroxyl groups

Diisocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased by stirring or if the other material mixes with the diisocyanate. Diisocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat.

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

Hazardous polymerization may occur when mixed with water, strong bases and alcohols. Heat and toxic fumes may be given off.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

Incompatible materials

Acids. Alcohols. Amines. Water. Ammonia. Bases. Aluminum. Avoid contact with Aluminum or Zinc. Reaction with these metals will generate corrosive gas.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Isocyanates. Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	May irritate eyes and skin upon contact. May be harmful if swallowed May be harmful by inhalation, ingestion, or skin absorption
Inhalation	Avoid breathing vapors or mists. May cause sensitization by inhalation. May cause respiratory irritation. May cause dizziness, breathing difficulty, headaches and loss of coordination.
Eye contact	Avoid contact with eyes. May cause severe irritation, tearing, redness, burning sensation, and blurred vision. May cause pain.
Skin contact	Avoid contact with skin and clothing. May be harmful in contact with skin. May cause skin irritation and/or dermatitis. May cause burns. May cause an allergic skin reaction.
Ingestion	Do not taste or swallow. May be harmful if swallowed. May cause drowsiness or dizziness. May cause irritation. May cause adverse liver effects. May cause adverse kidney effects. May cause central nervous system depression.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Methyl Ethyl Ketone 78-93-3	= 2737 mg/kg (Rat) = 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit) = 6480 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
4,4' -Methylenediphenyl diisocyanate (MDI) 101-68-8	= 31600 mg/kg (Rat) = 9200 mg/kg (Rat)	-	= 369 mg/m ³ (Rat) 4 h
Benzenesulfonyl isocyanate, 4-methyl-	= 2234 mg/kg (Rat)	-	> 640 ppm (Rat) 1 h

4083-64-1			
Methylenediphenyl diisocyanate 26447-40-5	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m ³ (Rat) 4 h
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Prolonged contact may cause moderate skin irritation with local redness. Repeated contact may cause moderate skin irritation with local redness. May stain skin.

Serious eye damage/eye irritation Risk of serious damage to eyes. Severe irritation, redness, and blurred vision. May cause slight temporary corneal injury.

Irritation Irritating to eyes, respiratory system and skin.

Corrosivity Not applicable.

Sensitization May cause sensitization by inhalation and skin contact. Repeated or prolonged contact may cause allergic reactions in very susceptible persons. No known medical conditions aggravated by exposure specific to the product. Individuals with sensitive airways (e.g., asthmatics) may react to airborne vapors.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
4,4' -Methylenediphenyl diisocyanate (MDI) 101-68-8	-	Group 3	-	-
Methylenediphenyl diisocyanate 26447-40-5	-	Group 3	-	-
Toluene 108-88-3	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

STOT - single exposure Respiratory system irritation. Route of Exposure: Inhalation. Target Organs: Respiratory Tract.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure if inhaled.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

Target Organ Effects Eyes, Respiratory system irritation, Central nervous system, Skin.

Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 3,316.00 mg/kg

ATEmix (dermal) 5,190.00 mg/kg

ATEmix (inhalation-dust/mist) 1.62 mg/l

ATEmix (inhalation-vapor) 35.81 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product may contain components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Methyl Ethyl Ketone 78-93-3	-	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through	520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h

			Daphnia magna mg/L EC50 Static
Methylenediphenyl diisocyanate 26447-40-5	3230: 96 h Skeletonema costatum mg/L EC50	-	1000: 24 h Daphnia magna mg/L EC50
Toluene 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 54: 96 h Oryzias latipes mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static	5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
Dibutyltin Dilaurate 77-58-7	-	2: 48 h Oryzias latipes mg/L LC50	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient
Methyl Ethyl Ketone 78-93-3	0.3
Methylenediphenyl diisocyanate 26447-40-5	4.5
Toluene 108-88-3	2.7

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

When disposing of unused contents the preferred options are to send to a licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water.

Contaminated packaging

Do not burn or use a cutting tool on the empty container. Triple rinse containers. May be offered for recycling, reconditioning, or puncture.

US EPA Waste Number

D001

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl Ethyl Ketone 78-93-3	U159	Included in waste streams: F005, F039	200.0 mg/L regulatory level	U159
Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151	-	U220
Monochlorobenzene 108-90-7	U037	Included in waste streams: F002, F024, F025, F039, K015, K105, K149	100.0 mg/L regulatory level	U037
Carbon tetrachloride 56-23-5	U211	Included in waste streams: F001, F024, F025, F039, K016, K019, K020, K021,	0.5 mg/L regulatory level	U211

		K073, K116, K150, K151, K157		
--	--	------------------------------	--	--

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene 108-88-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	-

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Methyl Ethyl Ketone 78-93-3	Toxic Ignitable
Toluene 108-88-3	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT	Regulated
UN/ID no	UN1133
Proper shipping name	Adhesives
Hazard Class	3
Packing Group	II
Emergency Response Guide Number	128

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
4,4' -Methylenediphenyl diisocyanate (MDI) - 101-68-8	1.0
Methylenediphenyl diisocyanate - 26447-40-5	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	Yes

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl Ethyl Ketone 78-93-3	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
4,4' -Methylenediphenyl diisocyanate (MDI) 101-68-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations**California Proposition 65**

WARNING! This product contains, or may contain, a substance(s) known to the state of California to cause cancer and/or reproductive harm.

Chemical name	California Proposition 65
Toluene - 108-88-3	Developmental
Carbon tetrachloride - 56-23-5	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methyl Ethyl Ketone 78-93-3	X	X	X
4,4' -Methylenediphenyl diisocyanate (MDI) 101-68-8	X	X	X
Toluene 108-88-3	X	X	X
Thiabendazole 148-79-8	X	-	-
Monochlorobenzene 108-90-7	X	X	X
Carbon tetrachloride 56-23-5	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

HMIS **Health hazards** 2* **Flammability** 3 **Physical hazards** 1 **Personal protection** X
Chronic Hazard Star Legend * = *Chronic Health Hazard*

Prepared By Worthen Industries, Inc.
Issue Date 06-Jul-2015
Revision Date 09-Jan-2018

Revision Note
No information available

Disclaimer
The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Worthen Industries makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon.

End of Safety Data Sheet