

2-4 TDI (250Kg)

Part No. RXSOL-19-1645-250 — Generated 04 Oct 2026

1. Product and Company Identification

Product Name RXSOL-19-1645-250

Product Type 2-4 TDI (250Kg)

Company Details:

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2. Composition / informationon ingredients

Hazardous components

The 2,4-TDI (CAS# 584-84-9) and the 2,6-TDI (CAS# 91-08-7) isomer mixture is known as Toluene Diisocyanate (CAS# 26471-62-5). For Regulatory and State Right to Know information on this product CAS# 26471-62-5 and its isomers 2,4-TDI and 2,6-TDI please refer to regulatory information section of this MSDS.

Weight percent	Components	CAS-No.
60 - 100%	2,4-Toluene Diisocyanate	584-84-9
15 - 25%	2,6-Toluene Diisocyanate	91-08-7

3. Hazards Identification

Emergency Overview

Danger Color: Colorless to light yellow Form: liquid Odor: pungent, strong. Toxic. Toxic gases/fumes may be given off during burning or thermal decomposition. Closed container may forcibly rupture under extreme heat or when contents have been contaminated with water. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Causes respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled. Respiratory sensitizer. Lung damage and respiratory sensitization may be permanent. Causes skin irritation. May cause allergic skin reaction. Skin sensitizer. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. Causes eye irritation. May cause lung damage

Potential Health Effects

Primary Routes of Entry:	Inhalation, Skin Contact, Eye Contact
Medical Conditions Aggravated by Exposure:	Asthma, Respiratory disorders, Skin Allergies, Eczema

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation

Acute Inhalation

For Product: MONDUR TD 80 GRADE B Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung functio (breathing obstruction). Persons with a preexisting,

nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

Chronic Inhalation

For Product: MONDUR TD 80 GRADE B As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to diisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to diisocyanates at levels well below the TLV or PEL. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to diisocyanates has also been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent.

Skin

Acute Skin

For Product: MONDUR TD 80 GRADE B Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove.

Chronic Skin

For Product: MONDUR TD 80 GRADE B Prolonged contact can cause reddening, swelling, rash, and, in some cases, skin sensitization. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Eye

Acute Eye

For Product: MONDUR TD 80 GRADE B Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor may cause irritation with symptoms of burning and tearing.

Chronic Eye

For Product: MONDUR TD 80 GRADE B Prolonged vapor contact may cause conjunctivitis.

Ingestion

Acute Ingestion

For Product: MONDUR TD 80 GRADE B May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Carcinogenicity:

NTP and IARC evaluated TDI as a mixture of the 2,4 and 2,6 isomers

2,4-Toluene Diisocyanate	NTP - Hazard Designation: Reasonably Anticipated to be a HumanCarcinogen. IARC - Overall evaluation: 2B Possibly carcinogenic to humans
2,6-Toluene Diisocyanate	NTP - Hazard Designation: Reasonably Anticipated to be a Human Carcinogen. IARC - Overall evaluation: 2B Possibly carcinogenic to humans

4. First Aid Measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Then remove contact lenses, if easily removable, and continue eye irrigation for not less than 15 minutes. Get medical attention.

Skin contact

Immediately remove contaminated clothing and shoes. Wash off with soap and water. Use lukewarm water if possible. Wash contaminated clothing before re-use. For severe exposures, immediately get under safety shower and begin rinsing. Get

medical attention if irritation develops.

Inhalation

Move to an area free from further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

Ingestion

Do NOT induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention.

Notes to physician

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

5. Fire-fighting Measures

Suitable extinguishing media: Dry chemical, Carbon dioxide (CO₂), Foam, water spray for large fires.

Special Fire Fighting Procedures

Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

Unusual Fire/Explosion Hazards

Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO₂ formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

6. Accidental Release Measures

Spill and Leak Procedures

Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Call ChemTrec at 800-424-9300 or 703-527-3887 for assistance and advice. Major Spill or Leak (Standing liquid): To minimize vapor, cover the spillage with fire fighting foam (AFFF). Released material may be pumped into closed, but not sealed, metal container

for disposal. Process can generate heat. Minor Spill or Leak (Wet surface): Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Swype® test kits have been used for this purpose. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO₂) escape. Additional Spill Procedures/Neutralization

Neutralization solutions:

- (1) Colorimetric Laboratories Inc. (CLI) decontamination solution.
- (2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% n-propanol.
- (3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).
- (4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

Bayer requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having

knowledge of the release.

7. Handling and Storage

Storage temperature: minimum: 25 °C (77 °F)
maximum: 35 °C (95 °F)

Storage period : 12 Months

Handling/Storage Precautions

Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

Further Info on Storage Conditions

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

8. Exposure controls and personal protection

The sum of the 2,4 and 2,6 isomer concentration should not exceed the guideline limits.

2,4-Toluene Diisocyanate (584-84-9)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.005 ppm

US. ACGIH Threshold Limit Values

Short Term Exposure Limit (STEL): 0.02 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ceiling Limit Value: 0.02 ppm, 0.14 mg/m³

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Time Weighted Average (TWA): 0.005 ppm, 0.04 mg/m³

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Short Term Exposure Limit (STEL): 0.02 ppm, 0.15 mg/m³

US. ACGIH Threshold Limit Values

Hazard Designation: Sensitiser.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen.

2,6-Toluene Diisocyanate (91-08-7)

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.005 ppm

US. ACGIH Threshold Limit Values

Short Term Exposure Limit (STEL): 0.02 ppm

US. ACGIH Threshold Limit Values

Hazard Designation: Sensitiser.

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Industrial Hygiene/Ventilation Measures

Local exhaust should be used to maintain levels below the TLV and PEL whenever diisocyanate is handled, processed, or spray-applied. At normal room temperatures (70 F) TDI levels quickly exceed the TLV or PEL unless properly ventilated. Standard reference sources regarding industrial ventilation (e.g., ACGIH Industrial Ventilation Manual) should be consulted for

guidance about adequate ventilation. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, Bayer, and others have developed sampling and analytical methods. Bayer methods can be made available, upon request.

Respiratory protection

At normal room temperatures, airborne TDI can exceed the ACGIH TLV-TWA; therefore, in inadequately ventilated environments, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory protection available includes (1) an atmosphere-supplying respirator such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air-purifying respirator (APR). If an APR is selected then (a) the cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or (b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL. An organic vapor (OV) cartridge is recommended for APR use.

Hand protection

Gloves should be worn. Nitrile rubber showed excellent resistance. Butyl rubber, neoprene, and PVC are also effective.

Eye protection

When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

Skin and body protection

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Medical Surveillance

All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted. Refer to the Bayer pamphlet (Medical Surveillance Program for Isocyanate Workers) for additional guidance.

Additional Protective Measures

Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

9. Physical and chemical properties

Form:	liquid
Color:	Colorless to light yellow
Odor:	pungent, strong
pH:	Not Applicable
Freezing Point:	10 °C (50 °F) Estimated based on component(s)
Boiling point/boiling range:	252 - 254 °C (485.6 - 489.2 °F) @ 1,013 hPa
Flash point:	126.67 °C (260.0 °F) (Pensky-Martens Closed Cup (ASTM D-93))

Vapour pressure:	Approximately 0.025 mmHg @ 25 °C (77 °F) Estimated based on component(s)
Specific Gravity:	1.22 @ 20 °C (68 °F)
Auto-ignition temperature:	> 595 °C (> 1,103 °F)
Decomposition temperature:	176.67 °C (350.01 °F)
Bulk density:	1,220 kg/m ³
Molecular Weight:	174

10. Stability and reactivity

Hazardous Reactions

Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause polymerization

Materials to avoid : Water, Amines, Strong bases, Alcohols, Copper alloys

Hazardous decomposition products

By Fire and High Heat: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke., Hydrogen cyanide, Isocyanate, Isocyanic Acid, Other undetermined compounds

11. Toxicological information

Toxicity Data for MONDUR TD 80 GRADE B

Toxicity Note

Toxicity data is for TDI mixed isomers

Acute oral toxicity

LD50: 4,130 - 5,110 mg/kg (rat, Male/Female)

Acute inhalation toxicity

LC50: 66 ppm (480 mg/m³), 1 h (rat, Male/Female)

LC50: 49 - 50.4 ppm, 4 h (rat, Male/Female)

aerosol

RD50: 2.12 ppm, 3 h (rat, male)

vapor

Acute dermal toxicity

LD50: > 9,400 mg/kg (rabbit, Male/Female)

Skin irritation

rabbit, Draize, Exposure Time: 24 h, Moderately irritating

Eye irritation

rabbit, Draize, Severely irritating

Sensitisation

dermal: sensitizer (guinea pig, Maximization Test)

inhalation: sensitizer (guinea pig, Other method)

Repeated dose toxicity

113 weeks, Inhalation: NOAEL: 0.05 ppm, (rat, Male/Female, 6 hrs/day 5 days/week)

Irritation to lungs and nasal cavity. No systemic effects were observed.

90 day, Oral: NOAEL: 30 mg/kg, LOAEL: 60 mg/kg, (rat, Male/Female, 5 days/week)

Reduced body weight gain. Changes in lungs.

Mutagenicity

Genetic Toxicity in Vitro:

Ames: positive, negative (Salmonella typhimurium, Metabolic Activation: with/without

Positive and negative results were seen in various in vitro studies. Questionable validity of studies due to rapid hydrolysis in solvents.

Genetic Toxicity in Vivo:

Micronucleus Assay: negative (rat,)

Unscheduled DNA synthesis: negative (rat,)

Carcinogenicity

rat, Male/Female, inhalation, 113 w, 6 hrs/day 5 days/week,

negative rat, Male/Female, oral, 106 w, daily, Positive, however the study validity is questioned due to the dose exceeding

maximum tolerated dose and irregularities in compound storage and analysis.

Toxicity to Reproduction/Fertility

Two generation study, inhalation, 6 hrs/day 7 days/week, (rat) NOAEL (parental): 0.08 ppm, NOAEL (F1): 0.02 ppm, NOAEL

(F2): 0.3 ppm No effects on Reproductive parameters observed at doses tested.

Developmental Toxicity/Teratogenicity

rat, female, inhalation, gestation days 6-15, 6 hrs/day 7 days/week, NOAEL (teratogenicity): 0.1 ppm, NOAEL (maternal): 0.1

ppm No Teratogenic effects observed at doses tested., Fetotoxicity seen only with maternal toxicity.

12. Ecological information

Ecological Data for MONDUR TD 80 GRADE B

Biodegradation

0 %, Exposure time: 28 d

Not readily biodegradable.

Bioaccumulation

Cyprinus carpio (Carp), Exposure time: 56 d, 1 BCF

Not expected to bio-accumulate.

Acute and Prolonged Toxicity to Fish

LC50: > 100 mg/l (Danio rerio (zebra fish), 96 h)

LC50: 133 mg/l (Rainbow (Donaldson) Trout (Oncorhynchus mykiss), 96 h)

Acute Toxicity to Aquatic Invertebrates

EC50: 12.5 mg/l (Water flea (Daphnia magna), 48 h)

EC50: > 500 mg/l (Grass shrimp, 24 h)

Toxicity to Aquatic Plants

EC50: 3,230 - 4,300 mg/l, End Point: growth (other: algae, 96 h)

Toxicity to Microorganisms

EC50: > 100 mg/l, (Activated sludge microorganisms, 3 h)

Additional Ecotoxicological Remarks

Ecotoxicity data is for TDI mixed isomers

13. Disposal considerations

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

Empty Container Precautions

Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

14. Transport information

Land transport (DOT)

Proper shipping name:Toluene diisocyanate

Hazard Class or Division:6.1

UN/NA Number:UN2078

Packaging group:IIHazard Label(s): Toxic

RSPA/DOT Regulated Components:

2,4-Toluene Diisocyanate

2,6-Toluene Diisocyanate

Reportable Quantity:45 kg (99 lb)

Sea transport (IMDG)

Proper shipping name:TOLUENE DIISOCYANATE

Hazard Class or Division:6.1

UN number:UN2078

Packaging group:II

Hazard Label(s):TOXIC

Air transport (ICAO/IATA)

Proper shipping name:Toluene diisocyanate

Hazard Class or Division:6.1

UN number:UN2078

Packaging group:II

Hazard Label(s):TOXIC

15. Regulatory information

United States Federal Regulations

OSHA Hazcom Standard Rating:Hazardous

US. Toxic Substances Control Act:Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):

Components

2,4-Toluene Diisocyanate :Reportable quantity: 100 lbs

2,4-Toluene Diisocyanate

2,6-Toluene Diisocyanate :Reportable quantity: 100 lbs

SARA Section 311/312 Hazard Categories:

Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Components

2,4-Toluene Diisocyanate

2,6-Toluene Diisocyanate

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

Components

2,4-Toluene Diisocyanate

2,6-Toluene Diisocyanate

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261)

Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight percent	Components	CAS-No.
60 - 100%	2,4-Toluene Diisocyanate	584-84-9
15 - 25%	2,6-Toluene Diisocyanate	91-08-7

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight percent	Components	CAS-No.
15 - 25%	2,6-Toluene Diisocyanate	91-08-7
80 - 90%	2,4-Toluene Diisocyanate	584-84-9

Pennsylvania Right to Know Special Hazard Substance List:

Weight percent	Components	CAS-No.
60 - 100%	2,4-Toluene Diisocyanate	584-84-9

MA Right to Know Extraordinarily Hazardous Substance List:

Weight percent	Components	CAS-No.
60 - 100%	2,4-Toluene Diisocyanate	584-84-9
15 - 25%	2,6-Toluene Diisocyanate	91-08-7

California Prop. 65:

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic

Weight percent	Components	CAS-No.
60 - 100%	2,4-Toluene Diisocyanate	584-84-9
15 - 25%	2,6-Toluene Diisocyanate	91-08-7

16. Other information

NFPA 704M Rating

Health	3
Flammability	1
Reactivity	1
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health	3*
Flammability	1
Physical Hazard	1

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe * = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

The handling of products containing reactive TDI polyisocyanate/prepolymer and/or monomeric TDI requires appropriate protective measures referred to in this MSDS. These products are therefore recommended only for use in industrial or trade (commercial) applications. They are not suitable for use in Do-It-Yourself applications.

Contact person:Product Safety Department

Telephone:(412) 777-2835

MSDS Number:112000032041

Version Date:09/19/2013

Report version:1.19

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