

1. IDENTIFICATION OF SUBSTANCE

PRODUCT FORM	Mixture	
PRODUCT NAME	Rugged Coatings Polyurea 201	
SUPPLIER IDENTIFICATION	Rugged Coatings 3217 Messer Airport Hwy Birmingham, AL 35222	
EMERGENCY TELEPHONE	(800) 424-9300 Chemtrec	

2. HAZARD(S) IDENTIFICATION

GHS RATINGS:

Skin Corr	1C	H313
Muta	2	H341
Aquatic Chronic	1	H410

HAZARD STATEMENTS

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H373	May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands, forearms and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED:	Call a POISON CENTER /doctor if you feel unwell.
P303+P361+P353 - IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338+P310 - IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER/doctor.
P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

LABEL ELEMENTS

PICTOGRAM



SIGNAL WORD

Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Polyoxypropylenediamine (CAS no.: 9046-10-0)	60 - 80% (weight)
Diethylmethylbenzenediamine (CAS no.: 68479-98-1)	15 - 40% (weight)

4. FIRST-AID MEASURES

GENERAL ADVICE	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
IF INHALED	If breathed in, move person into fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention.
SKIN CONTACT	Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.
EYE CONTACT	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
IF SWALLOWED	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical	Hazardous combustion products: Carbon oxides, nitrogen oxides, and other hazardous fumes and gases.
Special protective actions for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment as described in Section 8. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation.

Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS

Do not release into the environment. Stop spill/release if it can be done safely.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

For containment	Contain spilled material if possible.
Methods for cleaning up	Soak up with inert absorbent material and dispose of in accordance with local and national regulations. Keep in suitable containers for disposal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Use personal protective equipment as described in Section 8. For precautions see section 2.2.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry, cool, and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS NO.	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS
Water (7732-18-5)	Not Established	Not Established	Not Established
calcium carbonate (471-34-1)	Not Established	Not Established	Not Established
titanium(IV) oxide (13463-67-7)	Not Established	Not Established	Not Established
zinc oxide (1314-13-2)	Not Established	Not Established	Not Established
1,2-propanediol (57-55-6)	Not Established	Not Established	Not Established
latex,liquid,synthetic	Not Established	Not Established	Not Established
polyethylenes (9002-88-4)	Not Established	Not Established	Not Established
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	Not Established	Not Established	Not Established



EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.
INDIVIDUAL PROTECTION MEASURES	
EYE/FACE PROTECTION	Safety glasses. If splash hazard, wear faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure that eyewash stations and/or safety showers are close to the workstation location.
SKIN PROTECTION	Wear protective gloves.
BODY PROTECTION	Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
ENVIRONMENTAL EXPOSURE CONTROLS	Do not let product enter drains..

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance/form	Onyx black, space gray, and tan liquid.
Odor	Slight amine odor.
pH	9
Density	8.4 lbs/gal
Viscosity	350-450 cP

10. STABILITY AND REACTIVITY

REACTIVITY

Stable under normal conditions.

CHEMICAL STABILITY

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

CONDITIONS TO AVOID

Keep away from direct sunlight, heat and sources of ignition.

INCOMPATIBLE MATERIALS

Strong oxidizing agents, strong acids, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous combustion products: Carbon oxides, nitrogen oxides, and other hazardous fumes and gases.

11. TOXICOLOGICAL INFORMATION

POLYOXYPROPYLENEDIAMINE (CAS NO.: 9046-10-0)

LD50 (oral) - rat	475 mg/kg
LD50 (skin)	2173 mg/kg
LC50 (inhalation) - rat	> 0.74 mg/l (8h)

DIETHYLMETHYLBENZENEDIAMINE (CAS NO.: 68479-98-1)

LD50 (oral) - rat	738 mg/kg
LD50 (skin) - rat	> 2000 mg/kg



SKIN CORROSION/IRRITATION

Causes severe skin burns.

SERIOUS EYE DAMAGE/IRRITATION

Causes serious eye damage.

LD50 dermal rabbit > 15200 mg/kg (Rabbit, Dermal)

ATE US (oral) 3200.000 mg/kg bodyweight

CARCINOGENICITY

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

STOT-REPEATED EXPOSURE

May cause damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

TOXICITY

No data available on product.

PERSISTENCE AND DEGRADABILITY

No data available on product.

BIOACCUMULATIVE POTENTIAL

No data available on product.

MOBILITY IN SOIL

No data available.

RESULTS OF PBT AND VPvB ASSESSMENT

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF THE PRODUCT

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

DISPOSAL OF CONTAMINATED PACKAGING

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN Number: 2735

Class: 8

Packing Group: III

Proper Shipping Name: Amines, liquid, corrosive, N.O.S. (Polyoxypropylenediamine)

IMDG

UN Number: 2735

Class: 8

Packing Group: III

Proper Shipping Name: Amines, liquid, corrosive, N.O.S. (Polyoxypropylenediamine)

IATA

UN Number: 2735

Class: 8

Packing Group: III

Proper Shipping Name: Amines, liquid, corrosive, N.O.S. (Polyoxypropylenediamine)

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question.

SARA 302 COMPONENTS

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 HAZARDS

Acute Health Hazard, Chronic Health Hazard

SARA 313 COMPONENTS

16. OTHER INFORMATION

SAFETY DATA SHEET ISSUED BY PRODUCT SAFETY DEPARTMENT

FURTHER INFORMATION/DISCLAIMER

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Rugged Coatings. The data on these sheets relates only to the specific material designated herein. Rugged Coatings assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.