

1 Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: WRDA-82

MSDS ID Number: D-06720

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

W.R. Grace & Co. -Conn.
62 Whittemore Avenue
Cambridge, MA 02140 USA

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:

102-71-6	Triethanolamine	5.0-10.0%
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3 Hazards identification

Classification of the substance or mixture

Information concerning particular hazards for human and environment: Harmful if swallowed.

Inhalation: Causes respiratory tract irritation.

Eye Contact:

Causes eye irritation.

Irritating effect.

Prolonged eye contact can result in tissue damage.

Skin Contact:

Irritant to skin and mucous membranes.

Causes skin irritation.

May cause sensitization.

Ingestion:

Amines contained in this product have been associated with the following effects: lung damage, liver and kidney damage, blood effects, developmental toxicity and teratogenic effects.

Additional target organ effects:

May cause liver damage

May cause kidney damage

May cause blood effects

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NFPA ratings (scale 0 - 4)

Health = 1
 Fire = 1
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
 Flammability = 1
 Reactivity = 0

4 First aid measures**Description of first aid measures****General information:**

No special measures required.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures**Extinguishing media****Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the MSDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

Information about protection against explosions and fires:

Empty containers may retain hazardous residue, both liquid and vapor.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

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Control parameters

Components with limit values that require monitoring at the workplace:

102-71-6 Triethanolamine

TLV | 5 mg/m³

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: Avoid contact with the eyes and skin.

Breathing equipment:

Respiratory protection is not normally required. However, a chemical cartridge respirator with organic vapor cartridge and a prefilter for dusts/mists is required at or above the applicable exposure limits (consult exposure guidelines). If no limits exist, use an approved respirator whenever a vapor or mist is generated or if respiratory irritation occurs. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product. Rubber or other impervious gloves should be worn to prevent skin contact.

Material of gloves

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use.

Eye protection:



Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:

Liquid

Color:

According to product specification

Odor:

Characteristic

Odour threshold:

Not determined.

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pH-value:	~7.4
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212°F)
Flash point:	100°C (212°F)
Method:	Not determined (estimated) Aqueous system.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity**Reactivity****Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.USA
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11 Toxicological information

Information on toxicological effects

Acute toxicity:**Primary irritant effect:****inhalation:** Irritating to respiratory system.**Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:**

Amines contained in this product have been associated with the following effects: skin sensitization, lung damage, liver and kidney damage, blood effects, developmental toxicity and teratogenic effects.

12 Ecological information

Toxicity

Acquatic toxicity: No further relevant information available.**Persistence and degradability** No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.**Mobility in soil** No further relevant information available.

Additional ecological information:

General notes:

Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****DOT regulations:**

Hazard class: -
Remarks: Not Regulated.

Land Transport ADR/RID (cross-border):

ADR/RID class: -
 -
Remarks: Not Regulated.

Inland shipping ADN:

ADN/R Class: -

Maritime Transport IMDG:

IMDG Class: -
 -
Marine pollutant: No
Remarks: Not Regulated.

Air Transport ICAO-TI and IATA-DGR: Not Regulated for ICAO and IATA-DGR

ICAO/IATA Class: -
 -
Remarks: Not Regulated.

Special precautions for user Not applicable.**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
Flammable	No
Reactive	No
Pressure	No

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National Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

Remarks:**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65**Chemicals known to cause cancer:**

50-00-0 | Formaldehyde

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

50-00-0 | Formaldehyde

Chemicals known to cause developmental toxicity:

50-00-0 | Formaldehyde

WHMIS Classification(s):

D2B - Toxic material causing other toxic effects

**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV-ACGIH (Threshold Limit Value for Carcinogens established by ACGIH)

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Cancer (Occupational Safety & Health Administration)

None of the ingredients is listed.

National Volatile Organic Emission Standards for Architectural Coatings: Volatile Organic Content:**European EINECS**

Inventory listing could not be confirmed for one or more substances.

Philippines Inventory of Chemicals and Chemical Substances PICCS

Inventory listing could not be confirmed for one or more substances.

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Inventory of Existing Chemical Substances manufactured or imported in China IECSC

102-71-6	Triethanolamine
111-42-2	Diethanolamine
50-00-0	Formaldehyde

Australian Inventory of Chemical Substances AICS

Inventory listing could not be confirmed for one or more substances.

Existing and New Chemical Substance List ENCS

Inventory listing could not be confirmed for one or more substances.

Korean Existing Chemical Inventory

All ingredients are listed.

Product related hazard information:**Hazard symbols:**

Irritant

Hazard-determining components of labelling:

Triethanolamine

Risk phrases:

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

Safety phrases:

Do not breathe gas/fumes/vapor/spray.

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

This material and its container must be disposed of as hazardous waste.

Non-hazardous Ingredients

8061-52-7	Calcium lignin sulfonate	30-50%
7732-18-5	Water	50-100%

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other information**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

USA