

1 Identification of substance

Product details

Trade name: WRDA-20

MSDS ID Number: D-06641

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/Data on components

Chemical characterization

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

Hazardous components:		
111-42-2	Diethanolamine	1.0-2.0%
102-71-6	Triethanolamine	10-20%

3 Hazards identification

Hazard description:

Warning!
Irritant

Information pertaining to particular dangers for man and environment:

Harmful if swallowed.
Irritating to eyes, respiratory system and skin.
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.
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.

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Additional target organ effects:

May cause liver damage

May cause kidney damage

May cause teratogenic effects

May cause blood effects

May cause reproductive effects.

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**General information:****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.

5 Fire fighting measures**Suitable extinguishing agents:**

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

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

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for cleaning/collecting:

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

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Sweep up spilled product into receptacles.

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

7 Handling and storage**Handling:****Information for safe handling:** Open and handle receptacle with care.**Information about protection against explosions and fires:**

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

Storage:**Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** None.**8 Exposure controls and personal protection****Additional information about design of technical systems:** No further data; see item 7.**Components with limit values that require monitoring at the workplace:****111-42-2 Diethanolamine**REL | 15 mg/m³, 3 ppmTLV | 1* mg/m³, 0.2* ppm

Skin; *inhalable fraction and vapor

102-71-6 TriethanolamineTLV | 5 mg/m³**Additional information:** The lists that were valid during the creation were used as basis.**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.

Material of gloves

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

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Eye protection:

Tightly sealed goggles

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****General Information**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212°F)
Flash point:	180°C (356°F)
Method:	(estimated) Aqueous system.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined.
Solubility in / Miscibility with	
Water:	

10 Stability and reactivity**Thermal decomposition:** No decomposition if used according to specifications.**Dangerous reactions** Do not add nitrates to this product. Cancer-causing nitrosamines may be formed.**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.**11 Toxicological information****Acute toxicity:****Primary irritant effect:****on the skin:** May be irritating to the skin on prolonged contact**inhalation:** Irritating to respiratory system.

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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**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.

13 Disposal considerations

Product: Comply with Federal, State and local regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information**DOT regulations:**

Hazard class: -

Land Transport ADR/RID (cross-border):

ADR/RID class: -

-

Inland shipping ADN:

ADN/R Class: -

Maritime Transport IMDG:

IMDG Class: -

-

Marine pollutant: No

Air Transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

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15 Regulations**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):

111-42-2 | Diethanolamine

SARA Section 312/Tier I & II Hazardard Catagories:

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

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:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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)

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NTP (National Toxicology Program)

None of the ingredients is listed.

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

A3

Yes

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**

All ingredients are listed.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

None of the ingredients is listed.

Existing and New Chemical Substance List ENCS

All ingredients are listed.

Korean Existing Chemical Inventory

All ingredients are listed.

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

Irritant

Risk phrases:

Irritating to eyes, respiratory system and skin.

Non-hazardous Ingredients

7732-18-5 | Water

30-50%

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."

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