

## Material Safety Data Sheet

Printing date 05/23/2013

Version Number 1.2

Reviewed on 05/23/2013

**1 Identification****Product identifier**Trade name: DARAVAIR AT 30

MSDS ID Number: 60052

**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

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

**Other Country Contact Information:**

For products distributed beyond the country Manufacturer/Supplier identified above  
Consult Section 16 for additional emergency contact information.

**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.

<b>Hazardous components:</b>		
102-71-6	Triethanolamine	2.0-5.0%
61790-45-2	Fatty acids, tall-oil, sodium salt	2.0-5.0%
85409-27-4	Rosin, maleated, potassium salt	1.0-2.0%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

**3 Hazard(s) identification****Classification of the substance or mixture**

Harmful if swallowed.

**Information concerning hazards for human and environment:**

Irritating to eyes.  
Irritating to respiratory system.  
Irritating to skin.

**Inhalation:** Causes respiratory tract irritation.

**Eye Contact:**

Irritating effect.

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Prolonged eye contact can result in tissue damage.

**Skin Contact:**

Irritant to skin and mucous membranes.

May cause sensitization.

**Skin Absorption:** Not expected to be harmful if absorbed through the skin.

**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

**NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	2
FIRE	1
REACTIVITY	0

Health = \*2

Flammability = 1

Reactivity = 0

#### 4 First-aid measures

**General information:** No special measures required.

**After inhalation:**

If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

**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 symptoms persist, consult a physician.

**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

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

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

**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.

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.

**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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**Components with limit values that require monitoring at the workplace:****102-71-6 Triethanolamine**TLV | 5 mg/m<sup>3</sup>**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. Rubber or other impervious gloves should be worn to prevent skin contact.

**Material of gloves**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

**Eye protection:**

Safety glasses with side shield protection.

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.



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

**Body protection:** Protective work clothing**9 Physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

<b>pH-value (~) at 20 °C (68 °F):</b>	10
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**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
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<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>VOC Content (max):</b>	Not determined.
<b>Density: (~) at 20 °C (68 °F)</b>	1.0 g/cm <sup>3</sup> (8.345 lbs/gal)
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

**Solubility in / Miscibility with**  
**Water:** Not miscible or difficult to mix.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**  
**Dynamic:** Not determined.  
**Kinematic:** Not determined.

**Other information** No further relevant information available.

### 10 Stability and reactivity

**Thermal decomposition:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**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.

### 11 Toxicological information

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** May be irritating to the skin on prolonged contact

**on the eye:** May be irritating to the eyes.

**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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**IARC (International Agency for Research on Cancer) Human Carcinogenicity:**  
**Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

102-71-6 | Triethanolamine

3

**NTP (National Toxicology Program)****K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

**12 Ecological information****Aquatic 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.**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.

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

DOT, ADR, IMDG, IATA

Not applicable.

**UN proper shipping name**

DOT, ADR, IMDG, IATA

Not applicable.

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA

Class

Not applicable.

**Packing group**

DOT, ADR, IMDG, IATA

Not applicable.

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**Environmental hazards:****Marine pollutant:** No**Special precautions for user** Not applicable.**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**Transport/Additional information:****DOT****Remarks:** Not Regulated.**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 Delayed (chronic)	Yes
Health Immediate (acute)	Yes
Flammable	No
Reactive	No
Pressure	No

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

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

**CEPA (Canadian DSL):**

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

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

111-42-2 | Diethanolamine

**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.

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**WHMIS Classification(s):**

D2B - Toxic material causing other toxic effects

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

None of the ingredients is listed.

**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

Triethanolamine

A3

**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.

**Volatile Organic Compounds (VOC) reported per the Emission Standards for Architectural Coatings:**

If no g/L value is provided this product is not subject to above standard.

**European EINECS**

All ingredients are listed.

**Philippines Inventory of Chemicals and Chemical Substances PICCS**

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

**Inventory of Existing Chemical Substances manufactured or imported in China IECSC**

All ingredients are listed.

**Australian Inventory of Chemical Substances AICS**

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

**Japan Existing and New Chemical Substance List ENCS**

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

**Korean Existing Chemical Inventory**

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

**Non-hazardous Ingredients**

7732-18-5 | Water

**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."

**The first date of preparation** 03/29/2012**Number of revision times and the latest revision date** 1.2 / 05/23/2013