

Material Safety Data Sheet

Printing date 11/09/2011

Version Number 1.3

Reviewed on 11/09/2011

1 Identification of the substance/mixture and of the company/undertaking**Product identifier****Trade name:** DARACCEL**MSDS ID Number:** D-06808**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.**Hazardous components:**

10043-52-4	Calcium chloride	25-30%
102-71-6	Triethanolamine	1.0-2.0%

3 Hazards identification**Classification of the substance or mixture**

Harmful if swallowed.

Information concerning hazards for human and environment:

Irritating to eyes, respiratory system and skin.

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.

Inhalation: Causes respiratory tract irritation.

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Eye Contact:

Irritating effect.

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

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:

If skin irritation continues, consult a doctor.

If symptoms persist, consult a physician.

After eye contact: Rinse opened eye for several minutes under running water.**After swallowing:** Do not induce vomiting; immediately call for medical help.**5 Firefighting measures****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.

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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.

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.

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.**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.

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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.

Eye protection:

Safety glasses with side shield protection.



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:****Form:**

Liquid

Color:

According to product specification

Odor:

Characteristic

Odour threshold:

Not determined.

pH-value at 20°C (68 °F):

~9

Change in condition**Melting point/Melting range:**

Undetermined.

Flash point:

180 Degrees C

Flammability (solid, gaseous):

Not applicable.

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.

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Upper: VOC Content (max):	Not determined. Not determined.
Vapor pressure: Density at 20°C (68 °F): Vapour density Evaporation rate	Not determined. ~1.4 g/cm ³ (~11.683 lbs/gal) Not determined. Not determined.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity: Dynamic: Kinematic:	 Not determined. Not determined.
Other information	No further relevant information available.

10 Stability and reactivity**Thermal decomposition:** No decomposition if used according to specifications.**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:****LD/LC50 values relevant for classification:****10043-52-4 Calcium chloride**

Dermal | LD50 | 1000 mg/kg (rat)

Primary irritant effect:**on the skin:** Irritating to skin.**on the eye:** Irritating to eyes.**inhalation:** Irritating to respiratory system.**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**Acquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.

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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, ADN, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class

Not applicable.

Packing group

DOT, ADR, IMDG, IATA

Not applicable.

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.

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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):**

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

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) Human Carcinogenicity:**Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients is listed.

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

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**

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.

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.

International Chemical Inventory Status**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.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

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

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

7447-40-7	Potassium chloride	2.0-5.0%
7647-14-5	Sodium chloride	1.0-2.0%
7732-18-5	Water	50-100%

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