

Material Safety Data Sheet

Product 1203

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Product 1203
Product use	Emulsion Breaker
Manufacturer	CorsiTech P.O. Box 27727 Houston, TX 77227-7727 USA
Telephone	1-800-477-5353 (CorsiTech)
In case of emergency	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (CHEMTREC - International)

2. HAZARDS IDENTIFICATION

Physical state	liquid
Color	Clear. Amber.
Odor	Mild, Hydrocarbon.
Emergency overview	DANGER! Flammable. Irritant. Keep away from heat, sparks and flame. May cause sensitization by skin contact. Contains material which may cause cancer. See toxicological information (section 11)

Potential health effects

Inhalation	Vapors may cause drowsiness and dizziness.
Ingestion	Irritating to mouth, throat and stomach.
Skin	Irritating to skin. May cause sensitization by skin contact.
Eyes	Irritating to eyes.
Chronic effects	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Medical conditions aggravated by over-exposure	Pre-existing skin disorders may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name</u>	<u>CAS no.</u>	<u>Weight %</u>
Isopropyl Alcohol	67-63-0	30 - 60
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonated	119345-03-8	5 - 10
2-Ethylhexanol	104-76-7	1 - 5
Diethylenetriamine	111-40-0	1 - 5
Heavy aromatic solvent naphtha	64742-94-5	1 - 5
Naphthalene	91-20-3	0.1 - 1
diethylenetriamine alkylbenzene sulfate	40139-72-8	10 - 30

4. FIRST AID MEASURES

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Flash point	62 °F (16.7 °C), Pensky-Martens. Closed cup
Flammability of the product	Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	Do not use water jet.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on fire hazards	Not available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Inform the relevant authorities if the product has caused environmental pollution (sewers).

waterways, soil or air).

Methods for cleaning up

- Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** Use only with adequate ventilation. Put on appropriate personal protective equipment (see section 8). Wear appropriate respirator when ventilation is inadequate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Do not enter storage areas and confined spaces unless adequately ventilated. Eliminate all ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Workers should wash hands and face before eating, drinking and smoking.
- Storage** Store in accordance with local regulations. Store in a segregated and approved area. Keep container in a well-ventilated area. Store in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Separate from oxidizing materials. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

- Hands** Use chemical-resistant, impervious gloves.
- Eyes** Safety eyewear should be used when there is a likelihood of exposure.
- Body** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Occupational exposure limits

<u>Component</u>	<u>Source</u>	<u>Type</u>	<u>PPM</u>	<u>MG/M3</u>	<u>Notes</u>
Isopropyl Alcohol	OSHA PEL	TWA	400 ppm	980 mg/m3	
	NIOSH REL	TWA	400 ppm	980 mg/m3	
	NIOSH REL	STEL	500 ppm	1,225 mg/m3	
	ACGIH TLV	TWA	200 ppm		
	ACGIH TLV	STEL	400 ppm		
Diethylenetriamine	NIOSH REL	TWA	1 ppm	4 mg/m3	SKIN

Naphthalene	ACGIH TLV	TWA	1 ppm	4.2 mg/m ³	SKIN
	OSHA PEL	TWA	10 ppm	50 mg/m ³	
	NIOSH REL	TWA	10 ppm	50 mg/m ³	
	NIOSH REL	STEL	15 ppm	75 mg/m ³	
	ACGIH TLV	TWA	10 ppm	52 mg/m ³	
	ACGIH TLV	STEL	15 ppm	79 mg/m ³	

SKIN - Skin absorption can contribute significantly to overall exposure.

Engineering measures Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Emergency baths, showers, or other equipment appropriate for the potential level of exposure should be located close to the workstation location.

Environmental exposure controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	Clear. Amber.
Odor	Mild, Hydrocarbon.
Odor threshold	Not available.
Boiling/condensation point	Not available.
Pour point	< -20 °F (< -28.9 °C)
Flash point	62 °F (16.7 °C), Pensky-Martens. Closed cup
Flammable limits	Lower: Not available. Upper: Not available.
Auto-ignition temperature	Not available.
pH	4.0 - 6.0, Method (10% in 3:1 IPA/DI H ₂ O)
Evaporation rate	Not available.
Solubility	Water
Vapor density	Not available.
Relative density	0.9294 - 0.9595 @ 68 °F (20.0 °C)
Vapor pressure	Not available.
Viscosity	Dynamic: 10 - 30 cPs
Octanol/water partition coefficient (LogPow)	Not available.

Note: Typical values only - not to be interpreted as sales specifications

10. STABILITY AND REACTIVITY

Stability The product is stable.

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).
 Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid oxidizing materials

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

<u>Substance</u>	<u>Test type</u>	<u>Species</u>	<u>Dose</u>
Isopropyl Alcohol	LD50 Oral	Mouse	3,600 mg/kg
	LD50 Oral	Rat	5,000 mg/kg
	LD50 Oral	Rabbit	6,410 mg/kg
	LC50 Inhalation	Rat	72,600 mg/m3
	LD50 Dermal	Rabbit	12,800 mg/kg
2-Ethylhexanol	LD50 Oral	Rabbit	1,180 mg/kg
	LD50 Oral	Guinea pig	1,860 mg/kg
	LD50 Oral	Rat	2,053 mg/kg
	LD50 Oral	Mouse	2,500 mg/kg
Diethylenetriamine	LD50 Oral	Rat	1,080 mg/kg
	LD50 Oral	Rat	> 5,000 mg/kg
Heavy aromatic solvent naphtha	LD50 Oral	Rat	> 590 mg/m3
	LC50 Inhalation	Rat	> 2,000 mg/kg
	LD50 Dermal	Rabbit	> 2,000 mg/kg
Naphthalene	LD50 Oral	Mouse	316 mg/kg
	LD50 Oral	Rat	490 mg/kg
	LD50 Oral	Guinea pig	1,200 mg/kg
	LC50 Inhalation	Rat	340 mg/m3
	LD50 Dermal	Rabbit	2,000 mg/kg
	LD50 Dermal	Rat	2,500 mg/kg
	LD50 Dermal	Rat	2,500 mg/kg

Irritation/Corrosion

Not available.

Target organ effects

Heavy aromatic solvent naphtha: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity

Component

	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Naphthalene	2B	Possible	
2B Possible	- IARC Group 2B, possibly carcinogenic to humans		
Possible	- NTP reasonably anticipated to be carcinogenic		

12. ECOLOGICAL INFORMATION

Environmental effects No known significant effects or critical hazards.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Waste disposal The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORT INFORMATION

Refer to the bill of lading or container label for DOT or other transportation hazard classification. Additionally, be aware that shipping descriptions may vary based on mode of transport, shipment volume or weight, container size or type, and/or origin and destination. Consult your company's Hazardous Materials / Dangerous Goods expert or your legal counsel for information specific to your situation.

15. REGULATORY INFORMATION

HCS Classification

<u>Component</u>	<u>Classification</u>
Isopropyl Alcohol	Irritant., Occupational exposure limits
diethylenetriamine alkylbenzene sulfate	Harmful., Irritant.
Benzene, 1,1'-oxybis-, tetrapropylene derivatives, sulfonated	Irritant.
2-Ethylhexanol	Irritant.
Diethylenetriamine	Harmful., Corrosive, Sensitizer, Occupational exposure limits
Heavy aromatic solvent naphtha	Harmful.
Naphthalene	Carcinogen, Harmful., Occupational exposure limits

U.S. Federal regulations

CERCLA: Hazardous substances - Reportable quantity:

<u>Substance</u>	<u>Reportable quantity</u>
Naphthalene	100 lbs

<u>Product Reportable quantity</u>	<u>Substance</u>
70,323 lb, 8,943 gal US	Naphthalene

Product spills equal to or exceeding the threshold above trigger the reporting requirements under CERCLA for the listed hazardous substance. Report the spill or release to the National Response Center (NRC) at (800) 424-8802.

SARA Title III Section 302 Extremely hazardous substances (40 CFR Part 355):

None of the components are listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard.

SARA 313 - Supplier notification

<u>Component</u>	<u>CAS no.</u>	<u>Weight %</u>
Isopropyl Alcohol	67-63-0	30 - 60
Naphthalene	91-20-3	0.1 - 1

Clean Water Act (CWA) 307:

The following components are listed: Naphthalene.