

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	Desikote
Use of the Substance/Preparation	Adjuvant
Company/Undertaking Identification	Taminco, Inc. Two Windsor Plaza, Suite 411 7540 Windsor Drive Allentown, PA 18195 (800) 223-3258
Emergency telephone number	In case of emergency call CHEMTREC 1-800-424-9300 703-527-3887 (International Calls), 02-8014-4880 (Australia local calls)

2. HAZARDS IDENTIFICATION

Appearance off-white to light yellow liquid, Terpene-like odor

Emergency Overview

- WARNING!
- Causes skin irritation
- May cause respiratory irritation
- May cause allergic skin reaction
- Toxic to aquatic organisms

Principal Routes of Exposure

- Eye contact
- Skin contact
- Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Di-1-p-menthene	34363-01-4	30-45
Alcohol ethoxylate	68439-45-2	10-18

4. FIRST AID MEASURES

Ingestion

- Call a physician or Poison Control Centre immediately
- Rinse mouth
- Do not induce vomiting without medical advice
- Never give anything by mouth to an unconscious person

Skin Contact

- Wash off with warm water and soap
- Remove and wash contaminated clothing before re-use
- If skin irritation persists, call a physician

Eye Contact

- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- If symptoms persist, call a physician

Inhalation

- Move to fresh air
- If symptoms persist, call a physician

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- water spray
- carbon dioxide (CO₂)
- dry chemical
- foam

Specific methods

- Evacuate personnel to safe areas
- Keep containers and surroundings cool with water spray
- Wash/Decontaminate removed clothing before reuse
- Dike and collect water used to fight fire
- Water runoff can cause environmental damage
- Do not flush into surface water or sanitary sewer system

Special protective equipment for fire-fighters

- Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent)

Specific hazards

- Heating or fire can release toxic gas
- Toxic to fish

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Wear suitable protective equipment
- Evacuate personnel to safe areas
- Prevent further leakage or spillage if safe to do so

Environmental Precautions

- Prevent product from entering drains
- Do not flush into surface water or sanitary sewer system
- Report spills as required by local and federal regulations.
- Toxic to fish
- Read the product label for additional information.

Methods for Clean-up

- Prevent further leakage or spillage if safe to do so
- Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13)
- Read the product label for additional information.

7. HANDLING AND STORAGE

Storage

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- Technical measures/Precautions**
- Protect containers from physical damage
 - Keep containers tightly closed in a dry, cool and well-ventilated place
 - Store in original container
 - Keep away from food, drink and animal feedingstuffs
 - Do not use on, in or around the home
 - Keep away from children
 - Do not re-use empty containers
 - Observe label precautions

- Incompatible products**
- Oxidizing agents

Handling

- Technical measures/Precautions**
- Wear personal protective equipment
 - Ensure that eyewash stations and safety showers are close to the workstation location
 - Handle in accordance with good industrial hygiene and safety practice
 - When using, do not eat, drink or smoke
 - It is a violation of Federal Law to use this product in a manner that is inconsistent with its labeling.
 - Toxic to fish

- Safe handling advice**
- Avoid contact with skin, eyes and clothing
 - Do not breathe vapors or spray mist
 - Wear personal protective equipment
 - Use only in well-ventilated areas
 - Remove and wash contaminated clothing before re-use
 - Wash hands and face before breaks and immediately after handling the product
 - Re-open used containers with caution
 - Empty containers retain product residue and may be hazardous

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Di-1-p-menthene	Not listed	None Established
Alcohol ethoxylate	Not listed	None Established

- Respiratory Protection**
- In the case of dust or aerosol formation use respirator with an approved filter
 - The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
 - Handle in accordance with good industrial hygiene and safety practice

- Engineering measures**
- Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

- Eye Protection**
- Tightly fitting safety goggles

- Hand protection**
- Rubber gloves
 - Impervious gloves
 - Request information on glove permeation properties from the glove supplier

Skin Protection

- Wear suitable protective equipment
- Choose body protection according to the amount and concentration of the dangerous substance at the work place

Other protective equipment

- Ensure that eyewash stations and safety showers are close to the workstation location

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Color Off-white yellow tint
Odor Terpene-like

Important Health Safety and Environmental Information

Boiling Point/Range > 100°C
Flash Point No data available
Viscosity 520 mPas @ 20°C
Vapor Pressure 0.02Pa @ 25 °C
Relative density 0.98
pH No data available
Water solubility Partly soluble
Melting Point/Range No data available
Autoignition Temperature 268°C

10. STABILITY AND REACTIVITY

Stability • Stable
Conditions to Avoid • strong oxidizing agents
Hazardous Decomposition Products • Carbon oxides
Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Eye Contact Contact with eyes may cause irritation.
Skin Contact May cause sensitization by skin contact. Causes skin irritation.
Inhalation May cause irritation of respiratory tract. May cause irritation of the mucous membranes.
Ingestion Health injuries are not known or expected under normal use
Chronic Effects May cause sensitization by skin contact.

Chemical Name	IARC	ACGIH	OSHA	NTP
Di-1-p-menthene	Not Listed	Not Listed	Not Listed	Not Listed

Chemical Name	IARC	ACGIH	OSHA	NTP
Alcohol ethoxylate	Not Listed	Not Listed	Not Listed	Not Listed

Aggravated Medical Conditions Skin disorders.

Product Information

LD50/oral/rat =	> 2500 mg/kg
LD50/dermal/rat =	> 2000 mg/kg
LC50/inhalation/4h/rat =	> 4.96 mg/l
Eye irritation	Mild eye irritation
Skin irritation	Moderate skin irritation
Sensitization	Causes sensitization
Target Organ Effects	Not available
Mutagenic Effects	No information available
Reproductive toxicity	Did not show teratogenic effects in animal experiments
Carcinogenic effects	Did not show carcinogenic effects in animal experiments

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish:	LC50 : 41 mg/L
EC50/48h/daphnia =	1.9 - 10mg/L
EC50/120h/algae =	3 mg/l
Toxicity to bacteria	- No information available

Mobility

Koc = > 4.4

Persistence and Degradability

Not readily biodegradable

Bioaccumulative Potential

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods	Dispose of contents/container in accordance with local regulation.
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	Not regulated
Reportable Quantity (RQ)	None

Marine Pollutant No

IMDG/IMO

Proper Shipping Name UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Di-1-p-menthene), 9, PG III, Marine pollutant
Hazard Class 9
UN-No UN3082
Packing Group PGIII
Marine Pollutant Yes
Labelling Class 9

IATA

UN-No UN3082
Proper Shipping Name UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Di-1-p-menthene), 9, PG III
Hazard Class 9
Packing Group PGIII
Labelling Class 9

15. REGULATORY INFORMATION

International Inventories

NOTE: X = Listed

Chemical Name	TSCA	EINECS	DSL	ENCS	MITI	AICS	PICCS	IECSC	KECL	NZIoC
Di-1-p-menthene	X									
Alcohol ethoxylate	X		X							

OSHA HAZARD CLASSIFICATION:Irritant, Sensitizer

SARA 311/312 Hazardous Categorization
 Acute Health Hazard

SARA TITLE III SECTION 313 INFORMATION:
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

NOTE: X = Listed

CERCLA Hazardous Substances
 This product does not contain any RQs or TPQs under this regulation.

State Right-to-Know

NOTE: X = Listed

Chemical Name	PA	NJ	MA
Di-1-p-menthene 34363-01-4			
Alcohol ethoxylate 68439-45-2			

California Proposition 65 This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class D2B Toxic materials

Canadian Environmental Protection Act This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

16. OTHER INFORMATION

HMIS	Health 2	Flammability 1	Physical Hazard 0
NFPA	Health 2	Fire 1	Instability 0

Legend: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Prepared By Prepared By

Literary Reference -Taminco Proprietary Studies

Disclaimer: The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet