

MATERIAL SAFETY DATA SHEET

DIRECT AG SERVICES

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EMERGENCY RESPONSE (24-HOUR) INFORMATION: CHEMTREC (800)424-9300
EPA NATIONAL RESPONSE CENTER: (800) 424-8802

SECTION I: PRODUCT IDENTIFICATION

Product Name: DAS 90

Product Class: Nonionic Surfactant

Chemical Name and Synonyms: Mixture of isomeric monoalkyl phenols and isopropyl alcohol.

SECTION II: COMPOSITION, INFORMATION OF INGREDIENTS

Component

Name	CAS #	EINECS #	Average % by Weight
Isopropyl Alcohol	67-63-0	220-661-7	10%
Alkylaryl polyethyleneglycol	127087-87-0	NE	10%
Other glycols	NE	NE	70%
Constituents inactive as a Spray adjuvant	NE	NE	10%

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION III: PHYSICAL & CHEMICAL DATA

PHYSICAL FORM: Liquid

COLOR: Clear amber liquid

ODOR: Slight Alcohol odor

SOLUBILITY IN WATER: Soluble

FLASH POINT: > 100°F (38°C)

SPECIFIC GRAVITY (water=1): 0.87 @ 68°F (20°C)

pH: Neutral

BOILING POINT: 159°F (70°C)

SECTION IV: HEALTH SAFETY & HAZARD DATA

EMERGENCY OVERVIEW: *CAUTION!* This product is a moderate eye irritant. It may irritate the skin, the respiratory system, and if swallowed, the throat and gastrointestinal system. Keep out of reach of children.

PERSONAL PROTECTION:

EYE PROTECTION: Use safety goggles

SKIN PROTECTION: Wear chemically resistant gloves (e.g. nitrile, butyl, or neoprene.) Wear a long sleeved shirt, long pants, and shoes and socks.

RESPIRATORY PROTECTION: Wear a respirator if the airborne conditions result in an aerosol forming.

ENGINEERING CONTROLS: Provide adequate ventilation when product is used. Eyewash and shower should be provided in mixing and loading areas.

POTENTIAL HEALTH EFFECTS/ROUTES OF EXPOSURE:

INHALATION: Exposure to the vapor or mist may cause upper respiratory irritation.

SKIN CONTACT: Slightly irritating

EYE CONTACT: Vapor or mist may cause redness and tearing to the eyes

INGESTION: Harmful if swallowed

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause upper respiratory irritation, gastrointestinal irritation, skin irritation, and eye irritation.

CARINOGENICITY: Not listed by NTP or IARC. Not regulated as a carcinogen by OSHA

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Move the exposed person to fresh air, free from risk of further exposure. If the person is not breathing call 9-1-1, then give the artificial respiration. Seek medical attention as soon as possible.

EYE CONTACT: Flush with clean, lukewarm water raising upper and lower eyelids at low pressure for 15 minutes. Remove contact lenses, if present, after the first five minutes and continue to rinse the eyes. Seek medical attention if no relief.

SKIN CONTACT: Remove contaminated clothing. Rinse area with clean water for 15-20 minutes. Then call the poison control center or a doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. DO NOT INDUCE VOMITING. Lower the head when the exposed person is vomiting to minimize entry into the throat and lungs.

SECTION V: FIRE & EXPLOSION DATA

FLASH POINT: > 100°F (38°C)

EXTINGUISHING METHOD: Use dry chemicals, carbon dioxide, or foam.

UNUSUAL FIRE & EXPLOSION HAZARDS: Burning may generate carbon monoxide, phenols and possibly other toxic fumes.

FIRE OR EXPOSION HAZARDS: This material under complete combustion will form oxides of carbon.

SPECIAL FIREFIGHTING PROCEDURES: Avoid spreading liquid and fire by water flooding. Keep upwind of fire. Full emergency equipment with a NIOSH-approved self-contained breathing apparatus and full protective clothing should be worn by firefighters. Contain any liquid runoff.

SECTION VI: REACTIVITY DATA

Clear amber liquid with slight alcohol odor. Burning may generate carbon monoxide, phenols and possibly other toxic fumes.

STABILITY: This product is a stable material under normal conditions of storage and handling.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLES: Avoid temperatures above 100°F (38°C). Avoid contact with strong oxidizers or bases.

DECOMPOSITION PRODUCTS: This product will burn. The products of complete combustion are oxides of carbon.

SECTION VII: HANDLING AND STORAGE

STORAGE TEMPERATURE: Store in a plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store in contact with brass. Do not store near food or feed. Do not stack pallets more than two (2) high.

SPECIAL SENSITIVITY: Avoid contact with skin and eyes. Wear PPE per Section IV.

HANDLING AND STORAGE PRECAUTIONS: Use normal safety procedures and good personal hygiene. Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly after use. Remove contaminated clothing and wash thoroughly before reuse. Do not contaminate food or feed. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

SECTION VIII: SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL AND LEAK:

Wear PPE. Contain all spills and leaks to prevent discharge into the environment. Avoid breathing vapor or mist. Absorb with vermiculite, sand or other inert absorbent and place the collected material in a closed container. Finish cleaning the spill area with small amounts of soap and water.

DISPOSAL:

This material is a liquid. Wear vapor or mist respirator and other recommended PPE to dispose of the material. Dispose of in accordance with the regulations of local, state, and federal regulatory agencies.

SECTION IX: D.O.T., REGULATORY, AND GENERAL INFORMATION

D.O.T. Shipping Description: Not D.O.T. Regulated

Other Shipping Information: Adhesives, Adjuvants, Spreaders or Stickers, Liquid. NMFC Item 4612, LTL Class 60

OSHA: Flammable

TSCA: All components are exempt

CERCLA: None

SARA TITLE III, Section 313 Toxic Chemicals: None

HAZARD NOTIFICATION/REPORTING:

IMMEDIATE	<u>Y</u>	FIRE	<u>Y</u>	SUDDEN RELEASE OF PRESSURE	<u>N</u>
DELAYED	<u>Y</u>	REACTIVE	<u>Y</u>		

SECTION X: DISCLAIMER

This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Direct Ag Services be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, how so ever arising, even if company has been advised of the possibility of such damages.