

MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: ACT DS-51

MSDS NUMBER: 022101

PRODUCT CODE: Organic Penetrant and Dispersant

MSDS DATE: 02/21/2001

KEY NUMBER: DS-51

EMERGENCY PHONE #'s: (800) 255-3924 (ChemTel)



Advanced Chemical Technology, Inc.

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Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

HEALTH	2	Hazardous
FIRE	1	Flash Point: Above 200°F, 93°C
REACTIVITY	0	Stable
SPECIFIC		-

1. IDENTIFICATION

See Addendum: Ref. PAGE:

Chemical Name: ACT DS-51

Chemical Family: Amine salt

CAS #: Mixture

Chemical Formula: Mixture

CAS Name: Mixture

Molecular Weight: Mixture

Synonyms / Common Name: Organic Penetrants, Dispersants, and Cleaners

DOT Information: Non-hazardous per DOT shipping standard

2. PHYSICAL DATA

See Addendum: Ref. PAGE:

Appearance: Clear Liquid

Color: Off white to amber

State: Liquid

Odor Characteristics: Vinegar - like

pH: ND

Viscosity: ND

Specific Gravity (Water = 1): 1.02 - 1.00

Vapor Density (Air = 1): 2.25

Vapor Pressure: 23.7 mmHg @ 25 °C

Melting Point: Below 35 °F

Boiling Point: 212 °F

Flash Point: None to 212 °F

Freezing Point: Below 35 °F

Percent Volatility: ND

Evaporation Rate (BAc = 1): ND

Solubility in Water: Miscible in high proportions

Solubility in Oil: ND

Solubility in Acetone: ND

3. INGREDIENTS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Proprietary aliphatic amide hydrolysates				15

4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

Flash Point: None to 212 °F

Flammable Limits in Air % by volume: Lower NA
Upper NA

Extinguishing Media: To extinguish combustible residues of this product, use water fog, carbon dioxide, dry chemical, or foam

Special Fire Fighting Procedures: Keep people away. Isolate fire area and deny unnecessary entry. Contain fire run-off if possible. Review the Accidental Release Measures and Ecological Information Sections of this MSDS.

Unusual Fire & Explosion Hazards: Under fire conditions, some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Hazardous combustion products may include sulfur oxides, nitrogen oxides, and carbon oxides.

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5. HEALTH HAZARD DATA See Addendum:

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Threshold Limit Value: ND

Effects of Overexposure:**Inhalation:** Excessive exposure may cause irritation to upper respiratory tract**Skin Contact:** Prolonged exposure may cause skin burns. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. May cause allergic reaction.**Eye Contact:** May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness**Ingestion:** Single dose oral toxicity is extremely low. Small amounts swallowed incident to normal handling operations are not likely to cause injury. Larger may cause injury, irritation or ulceration of GI tract, or burns of mouth and throat.**Delayed Effects:** ND**Medical Conditions Aggravated by Exposure** ND**6. FIRST AID MEASURES** See Addendum:

PAGE #:

Inhalation: Remove to fresh air if effects occur. Consult a physician**Skin Contact:** Wash off in flowing water or shower.**Eye Contact:** Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical attention is essential.**Ingestion:** Do not induce vomiting. Give large quantities of water or milk if available, and transport patient to a medical facility.**NOTES TO PHYSICIAN:** None**7. REACTIVITY DATA** See Addendum:

PAGE #:

Stability: Stable under recommended storage conditions.**Incompatibility:** None known
(materials to avoid)**Hazardous Combustion or Decomposition Products** Hazardous decomposition products depend on temperature, air supply, and the presence of other materials.**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** Product can decompose at elevated temperatures**8. SPILL OR LEAK PROCEDURES** See Addendum:

PAGE #:

Actions to take for Leaks & Spills Contain material to prevent contamination of the soil, surface water, and ground water. Spills should be collected to prevent contamination of waterways. Clean up with absorbant material.**Waste Disposal Method:** Collect material in suitable and properly labeled open DOT containers and dispose of according to all local, state, and Federal regulations.



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9. SPECIAL PROTECTION INFORMATION

See Addendum:

Ref. PAGE:

Respiratory Protection: NIOSH approved respirator in the absence of adequate environmental controls at the point of use.

Eye Protection: Chemical goggles and face shield

Skin Protection: Rubber gloves

Other Clothing: Rubber apron and protective clothes recommended

Other Equipment: None

Engineering Controls: Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL.

10. HANDLING AND STORAGE

See Addendum:

Ref. PAGE: 4

Special Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors

Other Precautions: Keep containers tightly closed when not in use. Do not store near food, foodstuff, drugs, or potable water supplies. Storage must be in original containers. If exposed to temperatures below 40 °F, assure product reaches 50 °F before use.

11. REGULATORY INFORMATION

See Addendum:

Ref. PAGE: 4

Workplace Classification: NE

12. TOXICOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Acute Data: See section 5 for potential health effects

**Reproductive /
Teratology Data** ND

13. ECOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Fate in the Environment: INHERENTLY BIODEGRADABLE This material will degrade at a moderate rate and is considered "inherently biodegradable" according to OECD protocols. The active ingredient is degraded to 45% in a 28 day Zahn Wellens Inherent Biodegradability (ECD 302B) test

14. DISPOSAL CONDITIONS

See Addendum:

Ref. PAGE:

Procedures: Dispose of all waste according to Federal, state, and local regulations.

15. TRANSPORTATION INFORMATION

See Addendum:

Ref. PAGE:

DOT Classification: Non Hazardous Water Treatment Compounds N.O.S.

Warning Labels: None



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ADDENDUM for Section - 10. HANDLING AND STORAGE - Ref. Pg. 3

Roll container to assure adequate mixing prior to use. Storage temperatures above 60 °C will cause product decomposition and loss of efficacy.

ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3

No RECRA Listed Hazardous Constituents

CERCLA Status: Not regulated

SARA/Title III - Section 304 Emergency notification reporting: This product does not contain a Section 304 listed hazardous substance for emergency release notification.

SARA/Title III - Section 313 Toxic chemical release reporting. This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA Inventory Status: All chemical components are listed on TSCA inventory.

California Proposition 65 Status: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

ADDENDUM for Section - Other Information

NA = Not Applicable

ND = Not Determined

NE = Not Established

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