

# MATERIAL SAFETY DATA SHEET

Dow Chemical U.S.A.\* Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 22345

Page: 1

PRODUCT NAME: DOWANOL (R) DPM GLYCOL ETHER

Effective Date: 03/20/88 Date Printed: 03/31/88

MSDS:000045

## 1. INGREDIENTS:

Dipropylene glycol monomethyl ether CAS# 034590-94-8 99%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

## 2. PHYSICAL DATA:

BOILING POINT: 363F, 184C  
VAP PRESS: .55 mmHg @ 25C  
VAP DENSITY: 5.14  
SOL. IN WATER: Infinitely  
SP. GRAVITY: .950 @ 25/25C  
APPEARANCE: Clear, colorless liquid.  
ODOR: Information not available.

## 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 175F  
METHOD USED: TCC

FLAMMABLE LIMITS  
LFL: 1.1 vol% @ 100C  
UFL: 14 vol% @ 150C

EXTINGUISHING MEDIA: Water fog, alcohol resistant foam, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Information not available.

FIRE-FIGHTING EQUIPMENT: Wear positive-pressure, self-contained

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## 3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

breathing apparatus.

## 4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

## 5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Soak up with suitable non-reactive absorbent material. Collect with rubber shovel into suitable containers for disposal.

DISPOSAL METHOD: Burn in an approved incinerator in accordance with all local, state, and federal requirements.

## 6. HEALTH HAZARD DATA:

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Prolonged exposure not likely to cause significant skin irritation.

SKIN ABSORPTION: The LD50 for skin absorption in rabbits is >20 ml/kg. Prolonged skin contact with very large amounts of Dowanol DPM may cause drowsiness.

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## 6. HEALTH HAZARD DATA: (CONTINUED)

**INGESTION:** Single dose oral toxicity is low. The oral LD50 for rats is 5.4 ml/kg. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury.

**INHALATION:** Signs and symptoms of excessive exposure may be anesthetic or narcotic effects.

**SYSTEMIC & OTHER EFFECTS:** Repeated excessive exposures may cause liver or possibly kidney effects. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects. Results of in vitro ('test tube') mutagenicity tests have been negative.

## 7. FIRST AID:

**EYES:** Irrigate immediately with water for at least 5 minutes.

**SKIN:** Wash off in flowing water or shower. Wash contaminated clothing before reuse.

**INGESTION:** Induce vomiting if large amounts are ingested. Consult medical personnel.

**INHALATION:** Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

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## 8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE: ACGIH TLV is 100 ppm; STEL 150 ppm.

VENTILATION: Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Chemical goggles are recommended because eye contact with this material may cause pain, even though it is unlikely to cause injury.

## 9. ADDITIONAL INFORMATION:

### REGULATORY REQUIREMENTS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

A delayed health hazard  
A fire hazard

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Ground all equipment. Exercise reasonable care and caution in handling.

MSDS STATUS: Revised Section 9.

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For Further Information.

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ATTN: SAFETY DIRECTOR  
KIN-TK LABORATORIES  
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2315 PALMER  
TEXAS CITY  
SA MAZZANTINI

TX 77592

DATE: 02/06/89  
CUST # 930592 P.O. # 950 4506

M A T E R I A L   S A F E T Y   D A T A   S H E E T   PAGE:

IDENTIFICATION

PRODUCT # 24082-6   NAME: METHYL SALICYLATE, 99+%, GOLD LABEL  
CAS # 119-36-8  
MF: C8H8O3

SYNONYMS

ACIDE ANISIQUE (FRENCH) \* ACIDE METHYL-O-BENZOIQUE (FRENCH) \* O-ANISIC ACID \* BENZOIC ACID, 2-METHOXY- \* BETULA \* BETULA OIL \* GAULTHERIA OIL, ARTIFICIAL \* GAULTHERIA OIL \* O-HYDROXYBENZOIC ACID, METHYL ESTER \* 2-HYDROXYBENZOIC ACID METHYL ESTER \* O-METHOXYBENZOIC ACID \* METHYLESTER KYSELINY SALICYLOVE (CZECH) \* METHYL O-HYDROXYBENZOATE \* METHYL SALICYLATE \* NATURAL WINTERGREEN OIL \* OIL OF WINTERGREEN \* SWEET BIRCH OIL \* SYNTHETIC WINTERGREEN OIL \* TEABERRY OIL \* WINTERGREEN OIL \* WINTERGREEN OIL, SYNTHETIC \*

TOXICITY HAZARDS

RTECS # VO4725000

SALICYLIC ACID, METHYL ESTER

IRRITATION DATA

SKN-RBT 500 MG/24H MOD  
EYE-RBT 500 MG/24H MLD  
SKN-GPG 100% SEV  
EYE-GPG 100% SEV

FCTXAV 16,821,78  
85JCAE -,668,86  
FCTXAV 16,821,78  
FCTXAV 16,821,78

TOXICITY DATA

ORL-MAN LDLO:101 MG/KG  
ORL-CHD LDLO:228 MG/KG  
ORL-CHD LDLO:700 MG/KG  
ORL-WMN LDLO:355 MG/KG  
ORL-INF LDLO:1480 MG/KG  
ORL-HMN LDLO:506 MG/KG  
UNR-MAN LDLO:522 MG/KG  
ORL-RAT LD50:887 MG/KG  
ORL-MUS LD50:1110 MG/KG  
ORL-DOG LD50:2100 MG/KG  
ORL-RBT LD50:1300 MG/KG  
ORL-GPG LD50:1060 MG/KG

AJMSA9 193,772,37  
AJDCAI 69,37,45  
ADCHAK 28,475,53  
AJMSA9 193,772,37  
AJMSA9 193,772,37  
MEIEDD 10,876,83  
85DCAI 2,73,70  
FCTXAV 2,327,64  
JPETAB 132,207,61  
FCTXAV 16,821,78  
FCTXAV 16,821,78  
FCTXAV 2,327,64

REVIEWS, STANDARDS, AND REGULATIONS

EPA TSCA CHEMICAL INVENTORY, 1986  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1988  
MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,30420,  
82

TARGET ORGAN DATA

PERIPHERAL NERVE AND SENSATION (FLACCID PARALYSIS WITHOUT ANESTHESIA)  
BEHAVIORAL (GENERAL ANESTHETIC)  
BEHAVIORAL (SOMNOLENCE)  
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
BEHAVIORAL (COMA)  
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)  
LUNGS, THORAX OR RESPIRATION (RESPIRATORY STIMULATION)  
GASTROINTESTINAL (GASTRITIS)  
GASTROINTESTINAL (NAUSEA OR VOMITING)  
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CENTRAL NERVOUS SYSTEM)  
SPECIFIC DEVELOPMENTAL ABNORMALITIES (EYE, EAR)  
SPECIFIC DEVELOPMENTAL ABNORMALITIES (CRANIOFACIAL)  
SPECIFIC DEVELOPMENTAL ABNORMALITIES (BODY WALL)



## M A T E R I A L   S A F E T Y   D A T A   S H E E T   P A G E :

CATALOG # 24082-6      NAME: METHYL SALICYLATE, 99+%, GOLD LABEL

SPECIFIC DEVELOPMENTAL ABNORMALITIES (MUSCULOSKELETAL SYSTEM)  
SPECIFIC DEVELOPMENTAL ABNORMALITIES (HEPATOBIILIARY SYSTEM)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMAT

### ----- HEALTH HAZARD DATA -----

#### ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.  
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.  
CAUSES SKIN IRRITATION.

#### FIRST AID

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
CALL A PHYSICIAN.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.

### ----- PHYSICAL DATA -----

MELTING POINT: -8 C TO -7 C  
BOILING POINT: 222 C  
SPECIFIC GRAVITY: 1.174  
VAPOR DENSITY: 5.26  
VAPOR PRESSURE: 1.0 MM @ 54 C

### ----- FIRE AND EXPLOSION HAZARD DATA -----

AUTO IGNITION TEMP.: 847 F  
FLASH POINT: >230 F  
EXTINGUISHING MEDIA  
WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.  
SPECIAL FIRE FIGHTING PROCEDURES  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
UNUSUAL FIRE AND EXPLOSION HAZARDS  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

### ----- REACTIVITY DATA -----

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
STRONG BASES  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE

### ----- SPILL OR LEAK PROCEDURES -----

Belgium  
Aldrich Chemie N.V./S.A.  
Bd Lambermontaan 140, b. 6  
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## M A T E R I A L   S A F E T Y   D A T A   S H E E T

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CATALOG # 24082-6

NAME: METHYL SALICYLATE, 99+%, GOLD LABEL

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED  
 WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
 COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL.  
 VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD  
 DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

### --- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

CHEMICAL SAFETY GOGGLES.  
 RUBBER GLOVES.  
 NIOSH/MSHA-APPROVED RESPIRATOR.  
 SAFETY SHOWER AND EYE BATH.  
 USE ONLY IN A CHEMICAL FUME HOOD.  
 DO NOT BREATHE VAPOR.  
 DO NOT GET IN EYES, ON SKIN, ON CLOTHING.  
 WASH THOROUGHLY AFTER HANDLING.  
 TOXIC.  
 KEEP TIGHTLY CLOSED.  
 STORE IN A COOL DRY PLACE.

### ----- ADDITIONAL PRECAUTIONS AND COMMENTS -----

NOT APPLICABLE

### ----- REGULATORY INFORMATION -----

NOT APPLICABLE

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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