

Material Safety Data Sheet
Used to comply with OSHA's Hazard
Communication Standard, 29 CFR 1910.1200

SHERWIN INCORPORATED

5530 Borwick Avenue
South Gate, California 90280

562.861.6324 fax: 562.923.8370

IDENTITY (As on label and list)		DUBL-CHEK PENETRANT DP-51 (bulk)		Blank spaces are not permitted. Non-applicable items or unavailable information must be so noted	
Section I					
Manufacturer's Name		SHERWIN INCORPORATED		Emergency phone No.	Transportation Emergency: 800-424-9300 Sherwin Incorporated: 562-861-6324
Address		5530 BORWICK AVENUE		Information phone No.	562-861-6324
		SOUTH GATE, CA 90280		Date Prepared	November 2004
		Preparer's Signature			

Section II - Hazardous Ingredients Identity Information

Hazardous Components (Specific Chemical Name; Common Name(s))	CAS no.	OSHA PEL	ACGIH TLV	other limits recommended	% optional
Ethoxylated C11-C15 Secondary Alcohols Mixture. A nonionic Surface active agent or "wetting agent" (detergent)	68131-40-8	unlisted	unlisted	-	-

While exposure limits not established, a general guideline for products of this type is 5 mg/m³ (8-hour time-weighted average)

** (SEE SEPARATE MSDS FORM FOR DP51 AEROSOL)

HMIS - F-1, H-2, R-0, S-0

Section III - Physical/Chemical Characteristics

Boiling Point	440° F	Specific Gravity (H ₂ O = 1)	n/a
Vapor Pressure (mm Hg.)	n/a	Melting Point	n/a
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	n/a
Solubility in Water	Emulsifiable		
Appearance and Odor	Petroleum odor		

Section IV - Fire and Explosion Hazard Data

Flash Point (method used)	200° F ASTM D 93	Flammable Limits	LEL n/a	UEL n/a
Extinguishing Media	Large fires: apply alcohol-type or all-purpose-type foam by mfr's recommended techniques. Small fires: use carbon dioxide or dry chemical media.			
Special Fire Fighting Procedures	Do not use direct stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Firefighters should wear self-contained breathing apparatus and protective clothing.			
Unusual Fire & Explosion Hazards	On burning, this product can release toxic fumes and vapors. This material may produce a floating fire hazard.			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid	Open flames, build up of vapors and hazards normally incompatible with petroleum oils.
	Stable	x		
Incompatibility (materials to avoid)			Normally unreactive; however, avoid strong oxidizing agents.	
Hazardous Decomposition or Byproducts			Burning can produce toxic vapors which are harmful if inhaled as well as the following products: carbon monoxide and/or carbon dioxide.	
Hazardous Polymerization	May Occur		Conditions to Avoid	none
	Will Not Occur	x		

Section VI — Health Hazard Data

Routes of Entry:		Inhalation?	primary	Skin?	primary	Ingestion?	not likely
Health Hazards (acute and chronic)		Swallowing: May cause irritation of the mouth and throat, abdominal discomfort, nausea, vomiting and diarrhea. Skin absorption: Prolonged or widespread contact may result in the absorption of potentially harmful amounts of material. Inhalation: Short term harmful effects are not expected from vapor generated at ambient temperature. Skin contact: causes irritation w/ discomfort, local redness and swelling. Prolonged contact may cause severe irritation. Effects may be prolonged. Eye contact: Causes moderate to severe irritation, experienced as discomfort or pain, excess blinking and tear production, w/ marked excess redness and swelling of the conjunctiva. Corneal injury may occur.					
Carcinogenicity:		NTP?	N/A	IARC monographs?	N/A	OSHA regulated?	N/A
Signs & Symptoms of Exposure		Repeated skin contact may cause dermatitis.					
Medical Conditions Generally Aggravated by Exposure		Skin contact may aggravate existing dermatitis.					
Emergency & First Aid Procedures		Swallowing: DO NOT INDUCE VOMITING. Obtain medical attention. Skin: Remove contaminated clothing. Wash skin w/ soap and water. If irritation persists or if contact has been prolonged, obtain medical attention. Inhalation: Remove to fresh air. Eyes: Immediately flush eyes w/ water and continue washing for at least 15 minutes. Obtain medical attention w/o delay, preferably from an ophthalmologist.					

Section VII — Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled		Wear eye and skin protection. Floor may be slippery; use care to avoid falling. Contain spills immediately w/ inert materials (e.g. sand, earth). Avoid discharge to natural waters. Transfer liquids and solids, diking material to suitable containers for recovery or disposal. The material is water-miscible and final clean-up w/ water to remove surface residue is permissible. Immediately extinguish all flames and sources of ignition.					
Waste Disposal Method		Incinerate in a furnace where permitted under Federal, State and Local regulations.					
Storing & Handling Precautions		Handling: Do not splash or create mists or vapors. Storage: Store away from high temperatures and open flames. Keep containers closed.					
Other Precautions		Use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Emptied containers retain vapor and product residues. DO NOT cut or weld on or near the container.					

Section VIII — Control Measures

Specific Respiratory Protection		Use NIOSH approved respirator if vapors or mist is generated.			
Ventilation	Local Exhaust	Advisable	Special	none	
	Mechanical (general)	room ventilation is expected to be satisfactory		Other	none
Protective Gloves	Chemical resistant		Eye Protection	Monogoggles or chemical safety when possibility of splashing.	
Other Protective Clothing/Equipment		Chemical apron, eye bath, safety shower.			
Work/Hygenic Practices		Wash thoroughly after handling.			

DP-51 Bulk

January 18, 2011

CERTIFICATION

We hereby certify that samples of the material identified below by batch number, have been analyzed in accordance with test methods that meet and/or exceed the detection limits for fluoride, chloride, and sulfur per ASME Boiler and Pressure Vessel Code, Section V, Article 6, paragraph T-641, 1998 - 2010 Editions and addenda, with the following results:

		FLUORIDE ASTM E165 <u>ANNEX A4</u>	CHLORIDE ASTM E165 <u>ANNEX A4</u>	SULFUR ASTM E165 <u>ANNEX A4</u>
DUBL-CHEK	DP-51	<0.0001%BW	<0.0002%BW	<0.0006%BW
BATCH NO.	12-A47			

We further certify that this material meets or exceeds the requirements of AMS 2644, MIL-I-25135, Revision E and ASTM E1417.

Copies of the certification and laboratory reports are on file in our office for your inspection.

SHERWIN INCORPORATED**Emad Assar**
QC Chemist

March 23, 2011

Revision: August 2001

SHERWIN EAST: 1615 Distribution Drive • Burlington, Ky 41005 • (859) 525-6881 FAX (859) 525-6887**DUBL-
CHEK**
PENETRANT
PROCESS

CERTIFICATE OF CONFORMANCE

Date: January 18, 2011

Product: DP-51

Batch No.: 12-A47

Type: 2 Methods: A and C

It is hereby certified that this material has been tested in accordance with AMS 2644. Results of the required quality conformance tests, as stipulated by paragraph 4.3.2, are listed below.

<u>Test Method Paragraph</u>	<u>Test Description</u>	<u>Results</u>
3.3.3	Flash point i.a.w. ASTM D93	210°F
3.3.4	Viscosity i.a.w. ASTM D445 at 100 ± 1°F	5.52 cStS
3.3.8.6	Removability	Conforms
---	Fluoride content i.a.w. ASTM E165, Annex 4	<0.0001%BW
---	Chloride content i.a.w. ASTM E165, Annex 4	<0.0002%BW
---	Sulfur content i.a.w. ASTM E165, Annex 4	<0.0006%BW

It is further certified that this material is listed or approved for listing on QPL-AMS-2644. It also meets the requirements of MIL-I-25135E, ASTM E1417, and MIL-STD-6866.

SHERWIN INCORPORATED

Emad Assar
QC. Chemist

Revision: January 2000