

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code 47111301
Trade Name SOLDERON SC PRIMARY
Manufacturer/Supplier Shipley Company
Address 455 Forest St.
Marlborough, Massachusetts 01752
Phone Number (508) 481-7950
Emergency Phone Number (508) 481-7950
Chemtrec # (800) 424-9300
MSDS first issued 15 June 1999
MSDS data revised
Prepared By: Environmental, Health & Safety Department
Local Sales Company Shipley Company, 455 Forest Street, Marlboro, MA 01752
(508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components without CAS numbers are Trade Secret

Table with 3 columns: Component Name, CAS# / Codes, Concentration. Rows include water, Polyglycol, Catechol, and Methane sulfonic acid.

3. HAZARD IDENTIFICATION

Main Hazards - Carcinogen - Irritant - Skin - Eye - Respiratory System - Blood - Liver - Kidney - Nervous System
Routes of Entry Inhalation, ingestion, eye and skin contact, absorption.
Carcinogenic Status Listed as carcinogenic by IARC.
Target Organs - Skin - Eye - Respiratory System - Blood - Liver - Kidney - Nervous System
Health Effects - Eyes Liquid or vapor may cause conjunctival irritation and transient corneal damage.
Health Effects - Skin Material may cause irritation. Liquid may be absorbed through the skin in toxicologically significant amounts if area of contact is large and exposure prolonged.
Health Effects - Ingestion Repeated and/or prolonged contact may lead to: - dermatitis - discoloration - liver damage - kidney damage - headache - damage to the central nervous system - blood disorders
Health Effects - Inhalation - severe gastrointestinal irritation - liver damage - kidney damage - damage to the central nervous system - blood disorders

4. FIRST AID MEASURES

First Aid - Eyes Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention immediately.
First Aid - Skin Immediately flush the skin with large quantities of water, preferably under a shower. Remove contaminated clothing while flushing skin.
First Aid - Ingestion Wash out mouth with water. Obtain medical attention.
First Aid - Inhalation Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.
Advice to Physicians Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use water spray, foam, dry chemical or carbon dioxide.
Special Fire-Fighting Procedures This product may give rise to hazardous vapors in a fire.
Unusual Fire & Explosion Hazards None.
Protective Equipment for Fire-Fighting Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures Transfer into suitable containers for recovery or disposal. Spills may be absorbed with appropriate absorbent material for acid solutions.
Personal Precautions Wear appropriate protective clothing.
Environmental Precautions Prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling Use in well ventilated area. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.
Storage Store in original containers. Storage area should be:
- cool - dry - well ventilated - out of direct sunlight

Other None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Catechol ACGIH: TLV 5ppm (20mg/m3). OSHA: PEL 5ppm
Methane sulfonic acid None assigned.
Engineering Control Measures Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

	Respiratory Protection	Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
	Hand Protection	Butyl rubber or neoprene gloves. Other chemical resistant gloves may be recommended by your safety professional.
	Eye Protection	Chemical goggles.
	Body Protection	Normal work wear.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
	Physical State	Liquid
	Color	Clear Colorless
	Odor	Mild
	VOC (g/l)	60.2
	Specific Gravity	1.0 - 1.02
	pH	< 2.0
	Boiling Range/Point (°C/F)	Not determined.
	Flash Point (PMCC) (°C/F)	Not Flammable
	Explosion Limits (%)	Not applicable.
	Solubility in Water	Miscible.
	Vapor Density (Air = 1)	Heavier than air.
	Evaporation Rate	Slower than ether
	Vapor Pressure	Not applicable.
10.	STABILITY AND REACTIVITY	
	Stability	Stable under normal conditions.
	Conditions to Avoid	- contact with incompatible materials - Exposure to direct sunlight
	Incompatibilities	- Strong oxidizing agents - Reducing agents - Cyanides
	Hazardous Polymerization	Will not occur.
	Hazardous Decomposition Products	- carbon monoxide - Carbon Dioxide - oxides of sulfur
11.	TOXICOLOGICAL INFORMATION	
	Acute Data	Methane Sulfonic Acid: Oral LD50 (rat) 2000mg/kg. Catechol: Oral LD50 (mouse) 260mg/kg.
	Chronic/Subchronic Data	Catechol: In laboratory animals, evidence of carcinogenic activity was observed. Studies have shown that this product readily penetrates skin and that skin contact can result in significant absorption and systemic toxicity.
	Genotoxicity	No relevant studies identified.
	Reproductive/Developmental Toxicity	No relevant studies identified.
	Additional Data	None.
12.	ECOLOGICAL INFORMATION	
	Mobility	No relevant studies identified.
	Persistence/Degradability	No relevant studies identified.
	Bio-accumulation	No relevant studies identified.
	Ecotoxicity	The product may be harmful to aquatic organisms. Do not discharge directly to surface water. Catechol: Tests on the following species gave a 48h TLm of 14mg/litre: - goldfish
13.	DISPOSAL CONSIDERATIONS	
	Product Disposal	Dispose of in accordance with all applicable local and national regulations.
	Container Disposal	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.
14.	TRANSPORT INFORMATION	
	DOT Ground:	Not Regulated
	UN Proper Shipping Name	None.
	UN Class	None.
	UN Number	None
	UN Packaging Group	None.
	N.O.S. 1:	Not applicable.
	N.O.S. 2:	Not applicable.
	Subsidiary Risks	None.
	ADR/RID Substance Identification Number	None assigned.
	CERCLA RQ	Catechol (100#)
	Marine Pollutant	None.
15.	REGULATORY INFORMATION	
	TSCA Listed	All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50. This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).
	TSCA Exemptions	
	TSCA Sec.12(b) Export Notification	This product does not contain any substances subject to Section 12(b) export notification.
	WHMIS Classification	D.2.A , D.2.B
	MA Right To Know Law	All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.
	California Proposition 65	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
	SARA TITLE III-Section 311/312 Categorization (40 CFR 370)	Immediate, delayed health hazard

- Catechol (120-80-9)

16.

OTHER INFORMATION

NFPA Rating- FIRE 0
NFPA Rating- HEALTH 2
NFPA Rating- REACTIVITY 0
NFPA Rating- SPECIAL None.
Revisions Highlighted
Abbreviations

N/A: Denotes no applicable information was found.

CAS#: Chemical Abstract Services Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk

S: Safety

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

TLm: Median Tolerance Limit

Disclaimer

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