METAL WELDER ACTIVATOR

Material Safety Data Sheet

Part No. 0983

METAL WELDER ACTIVATOR

Last revised:

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Printed:

Exposure limits

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical family

Organic peroxide solution

General information: This information applies only to the activator intended for use with an adhesive. After

proper mixing and curing, the product is not hazardous.

MANUFACTURER

EMERGENCY INFORMATION Emergency telephone number

ITW Devcon 30 Endicott St.

(CHEMTREC) (800) 424-9300 (978) 777-1100 Other calls:

Danvers, MA 01923

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS	CONSTITUENTS		

						postile iiiiii	
Constituent		Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Diisobutyl Phthalate		DIBP	84695	20-40	n/e	n/e	n/e
Benzoyl peroxide	* * * * *	ВРО	94360	10-30	5 mg/m 3	5 mg/m^ 3	5 ppm (Canada)
Surfactant (<1.4% glycol ethers)				< 5	n/e	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) as established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance, physical form, odor: viscous liquid with little odor.

CAUTION! Reactive. Possible eye irritant. Keep away from heat, sparks, open flames. Do not store near combustibles. Wash thoroughly after handling.

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Potential health effec	ts:		
Primary routes of exp			
Skin contact	Skin absorption Eye	e contact Inhalation	Ingestion
Symptoms of acute o	verexposure;		
Skin:		Eyes:	
thermal burns. No acute	ted temperatures can cause effects reported for benzoyl although the pure peroxide	Irritant. Contact at elevated te thermal burns.	mperatures can cause
Inhalation:		Ingestion:	
High vapor concentratior lungs, and eyes.	ns are irritating to nose, throat,	Acute oral toxicity is low. May May cause central nervous sys	•
Effects of chronic ove	rexposure:		
Pure benzoyl peroxide is	reported to be an allergen.		
Medical conditions w Preexisting eye, skin and	hich may be aggravated by edirespiratory disorders.	exposure:	
Carcinogenicity OS	HA regulated: No ACC	GIH: No National Toxicolog	gy Program: No
	ncer-suspect constituent(s): N		
Other effects:			,
See section 11.			

4. FIRST AID MEASURES

First aid for eyes:

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

First aid for inhalation:

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

First ald for skin:

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and warm water. Consult a physician if irritation develops.

First aid for ingestion:

Do NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention.

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5. FIRE FIGHTING	MEASURES			
Extinguishing media: Water	Carbon dioxide	Dry chemical	Foam	Alcohol foam
Flash Point (°F): Not av	/ailable	Method: (No	flashpoint method for	рє
Explosive limits in air -	- Lower: Not available	Upper: Not	available	

Special firefighting procedures:

If large amounts of material are involved, evacuate area and fight fire from safe distance. Do not enter confined space without full bunker gear.

Firefighters should wear self-contained breathing

Unusual fire and explosion hazards:
Benzoyl peroxide can decompose violently if
heated strongly while confined. Flammable gases
and vapors may form during decomposition and
cause flash back.

exposed containers with water spray. Hazardous products of combustion:

apparatus and protective clothing. Cool fire

When heated to decomposition it emits carbon dioxide, carbon monoxide, biphenyl and other fumes and vapors varying in composition and toxicity.

6. ACCIDENTAL RELEASE MEASURES

Spill control:

Avoid personal contact. Eliminate ignition sources. Ventilate area.

Cleanup:

Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly. Flush area with water to remove trace residue. Use non-sparking tools.

Containment:

suitable material.

Special procedures:

Prevent spill from entering drainage/sewer systems, waterways, and surface waters. Notify appropriate authorities as required.

Dike, contain and absorb with clay, sand or other

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.

Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations. Use non-sparking equipment. Bond and ground containers when transferring contents.

Storage precautions:

Store in a cool, dry area away from high temperatures and flames. Storage above 100 F will reduce useful life of the material. Keep from heat, sparks, and open flame. Do not store near combustibles.

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3. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

/entilation:

Other engineering controls:

Local exhaust ventilation is preferred although good general mechanical ventilation is usually adequate for most industrial applications. Local exhaust is recommended for confined areas.

Have emergency shower and eve wash available.

Personal protective equipment

Eve and face protection:

Skin Protection:

Safety glasses with side shields.

Chemical-resistant gloves and other gear as required to prevent skin contact.

Respiratory protection:

None required at normal handling temperatures and conditions. Use NIOSH approved organic vapor cartidges for uncured activator and dust/particle respirators during grinding/sanding operations of cured product as exposure levels dictate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity:

1 10

Boiling point (°F):

n/d

Melting point (°F):

n/d

Vapor density (air = 1):

n/d

Vapor pressure (mmHq):

n/d

at 171 °F

Evaporation rate (butyl acetate = 1):<<1

VOC (grams/liter): n/d Solubility in water:

Incompatible materials:

slight

Percent volatile by volume: n/d

Percent solids by weight:

n/d

pH (5% solution or slurry in water): neutral

10. STABILITY AND REACTIVITY

This product is chemically unstable.

Hazardous polymerization will not occur.

Conditions to avoid:

Heat, spark, open flame, contamination, and

friction

Strong acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines), metal salts, reducing agents and accelerators.

Hazardous decomposition products:

Oxides of carbon; biphenyl, flammable and toxic fumes, and other organic substances may be formed during combustion.

Conditions of hazardous polymerization:

Not expected to occur under normal temperatures and pressures.

11. TOXICOLOGICAL INFORMATION

Acute oral effects:

Acute dermal effects

LD50 (rat): No data available.

LD50 (rabbit): No data available.

BPO: slightly toxic to practically non-toxic to rats.

BPO: non-irritating to rabbits (4-hr exposure). Repeated controlled human skin contact studies produced skin allergy.

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Acute inhalation effects:

Eye irritation:

LC50 (rat): No data available

in 0 hours

BPO: severely irritating to rabbits.

BPO: practically non-toxic to rats (LC50> 22.4

mg/L, 4-hr)

Chronic effects

No data available.

Subchronic effects

BPO: Rats fed dose of 2800 mg/kg for 2-yrs showed increase incidence of testicular atrophy.

Carcinogenicity, teratogenicity, and mutagenicity:

BPO: both positive and negative (mutagenic and non-mutagenic) responses occurred in tests with animal or bacterial cells. Repeated skin application with a known carcinogen enhanced skin tumor production in mice by the carcinogen.

Toxicological information on hazardous chemical constituents of this product:

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat, 4 hours)
Diisobutyl Phthalate	15 g/kg	n/d	n/d
Benzoyl peroxide	7710 mg/kg	n/d	n/d
Surfactant (<1.4% glycol ethers)	n/d	n/d	n/d
	100	TWG	100

12. ECOLOGICAL INFORMATION

Ecotoxicity:

BPO: 96 hr, LC50 guppy (semi-static) = 2.0 mg/l, moderately toxic.

Mobility and persistence:

Environmental fate:

BPO: almost 60 % biodegradadation was reached

after 28 days in the closed bottle ready

BPO: EC50 = 35 mg/L absorbed to gel for activated sludge respiration inhibition.

biodegradablity test.

13. DISPOSAL CONSIDERATIONS

Waste management recommendations:

If this resin becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

Packing group:

N/A

14. TRANSPORT INFORMATION

Proper shipping name: Non-regulated

Technical name:

N/A

Hazard class:

N/A

UN number:

N/A

14//

Emergency Response Guide no.:

N/A

Other:

N/A

N/A

IMDG Page no.:

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15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA:

All ingredients of this product are listed, or are exempt from listing, on the TSCA Inventory.

The following RCRA code(s) applies to this material if it becomes waste: None

Regulatory status of hazardous chemical constituents of this product:

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Diisobutyl Phthalate	No	No	No	Not required
Benzoyl peroxide	No	Yes	No	Not required
Surfactant (<1.4% glycol ethers)	No	Yes	No	Not required

^{*}Consult the appropriate regulations for emergency planning and release reporting requirements

Toxic Chemicals, for which release reporting may be required. Consult the appropriate regulations for specific requirements.

Classification of this material for SARA Section 312 hazardous materials inventory reporting:

Immediate health hazard Reactivity hazard

Regulatory notes:

In normal use, the adhesive mixed with this product is polymerized during cure. For purposes of air quality regulations, the maximum amount of VOC (i.e. MMA) emitted is low (less than 10%). Actual emissions are a function of substrate and process and should be considered on an individual basis.

Canadian regulations

WHMIS hazard class(es):

D2B

16. OTHER INFORMATION

	terials Information Syst	em (rimis) ratings
Health	Flammability	Reactivity
1	1	2

for substances on the SARA Section 301 Extremely Hazardous Substances list.

^{**}Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of