



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** DIME SOLUTION

**SDS Number:** SDS-4206

**Revised Date:** 20 FEBRUARY 2018

**Product Use:** LIQUID FLUX (MIXTURE)

#### MANUFACTURER:

##### In America:

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

X Eye

X Inhalation

X Skin

X Ingestion

NTP

### Carcinogen listed in

IARC

OSHA

X Not Listed

GHS



Signal Word: Danger

#### Hazard Statement(s):

H301	Toxic if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H370	Causes damage to organs
H225	Highly flammable liquid and vapor

#### Precautionary statement(s):

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P233	Keep container tightly closed
P240	Ground/Bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lightening equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P350	IF ON SKIN: Gently wash with plenty of soap and water
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + 351	IF IN EYES: Rinse continuously with water for several minutes (15 mins)

#### Classification:

Flammable Liquid- Category 2  
 Acute toxicity- oral- Category 3  
 Acute toxicity- inhalation- Category 3  
 Acute toxicity-dermal-Category 3  
 Specific target organ toxicity- single exposure- Category 1

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Vapors may be irritating, liquid may damage eye tissue.

**Ingestion:** May cause persistent nausea, vomiting and abdominal pain. Harmful if swallowed.

**Inhalation:** Vapor may cause headaches, drowsiness, vertigo and or dizziness. Harmful if inhaled.

**Skin Contact:** Prolonged contact may cause irritation. Harmful by skin absorption.

**Chronic:** Methanol target organ CNS, respiratory system. Methanol is slowly eliminated from the body.

**WARNING:** This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). Applicable in California. (methanol)

**NOTE:** The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #/EINECS#	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
METHANOL (methyl alcohol)	50	67-56-1/200-659-6			
		(US)	260	262	328
		(EU)	-	266	333
		(Canada)	-	262	328
		(Singapore)	262	-	328
		(Mexico)	-	260	310
		(China)	-	25(skin)	50(skin)
PROPRIETARY	50	-	N.E.	N.E.	N.E.
N.E. = Not established		EU = European Exposure Limits			

### 4. FIRST AID MEASURES

**Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.

Call POISON CENTER

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

**Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** 52 F                      **Method:** Closed Cup

**Auto-ignition Temperature:** 850 F

**Flammable Limits:** Upper: 36 ; Lower 7

**Extinguishing Media:** Dry chemical, CO<sub>2</sub>, sand, alcohol-resistant foam. Use extinguishers appropriate for the surrounding fire conditions.

**Special Fire Fighting**

**Procedures:** Wear protective clothing and self-contained breathing apparatus. Use water to cool fire exposed containers. Flammable vapors may travel great distances to ignition source and flash back.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** DO NOT allow material to enter sewer system or waterway. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. Keep unauthorized personnel away. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

**7. HANDLING AND STORAGE**

**Handling Precautions:** Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers. Keep away from sources of ignition/heat/flame.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry area. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label. Ground containers, especially during pouring.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation is required. Avoid exposure to fumes and vapors. Work in chemical hood if possible.

**Personal protection:**

**Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.

**Respirator:** An approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.

**Skin:** Compatible chemical resistant gloves. Use gloves such as nitrile, which are compatible with alcohol's.

**Other:** Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.

**Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear liquid	<b>Boiling Point:</b>	149 F
<b>Odor:</b>	Alcohol odor.	<b>Evaporation Rate:</b>	3.5
<b>Specific Gravity:</b>	0.878	<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	4.3lbs/sq.in. 100F	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	ND	<b>% Volatiles by volume:</b>	ND

**10. STABILITY AND REACTIVITY**

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames and storage in aluminum.
<b>Incompatible Materials:</b>	Anhydrides, halogens, phosphorus, trichlorides, monomers, aldehydes
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide and unidentified organics during combustion
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Carcinogenicity:</b>	National Toxicity Program <b>NTP:</b>	No
	Occupational Safety & Health Administration <b>OSHA:</b>	No
	International Agency for Research on Cancer <b>IARC:</b>	No

**LD50:** Not established.                      **LC50:** Not established.

RTECS: See NIOSH (PC 1400000)

Methanol: LD50 Oral 5628 mg/kg (rat), LD50 Dermal 15800 mg/kg (rabbit), LC50 Inhalation 64000 ppm (rat) 4h

Methanol: Target organs, gastrointestinal tract, CNS, eyes, respiratory system, skin nerves, liver, kidney, spleen, blood

**12. ECOLOGICAL INFORMATION**

Product not tested.

Methanol: Freshwater fish: LC50 >10000 mg/l 96h

Water flea: EC50 > 10000 mg/l 24h

**13. DISPOSAL CONSIDERATION**

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations. Generally will be classified as hazardous waste. Empty containers should be taken for recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements.

UN1230, METHANOL SOLUTION, 3, PG II



North America Emergency Guide Book – Guide #131

Label: flammable class 3 / toxic class 6.1

## 15. REGULATORY INFORMATION

The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).



Canadian WHMIS: Class B2 Flammable Liquid  
D2B Toxic Material Causing Other Toxic Effects .

This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

SARA 313 Listing - 40 CFR 372.65: Methanol

All ingredients are listed on the EPA TSCA Inventory.

This product has been classified in accordance with the Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

### Malaysia:

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS). (GHS)

### In China:

Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals

GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS)

GB/T 16483-2008, GB/T 17517-2013

This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007

**WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). Applicable in California. (methanol)**

## 16. OTHER INFORMATION

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	2
	<b>Fire:</b>	3
	<b>Reactivity:</b>	0

**Revised Date:** 20 FEBRUARY 2018

**Prepared by:** Nancy Swarts, Indium Corporation of America

**Approved by:** Nancy Swarts, Indium Corporation of America

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