



Revision Number: 004.2

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**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name:</b> X32-10M LOW SOLID FLUX 5GA BX	<b>IDH number:</b> 479653
<b>Product type:</b> Cleaner	<b>Item number:</b> M00320
	<b>Region:</b> United States
<b>Company address:</b> Henkel Corporation 15051 East Don Julian Road Industry, California 91746	<b>Contact information:</b> Telephone: 626.968.6511 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b> Liquid	<b>HEALTH:</b> *3
<b>Color:</b> Colorless	<b>FLAMMABILITY:</b> 3
<b>Odor:</b> Alcoholic	<b>PHYSICAL HAZARD:</b> 0
	<b>Personal Protection:</b> See MSDS Section 8

**DANGER:** FLAMMABLE LIQUID AND VAPOR.  
HARMFUL OR FATAL IF SWALLOWED.  
HARMFUL IF INHALED.  
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.  
MAY CAUSE SKIN IRRITATION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** Toxic by inhalation. Inhalation of vapors or mists of the product may be irritating to the respiratory system. Exposure to high doses may cause central nervous system depression. Such doses may also cause adverse effects in the liver, kidneys, and lungs.

**Skin contact:** Harmful if absorbed through skin. May cause severe irritation due to defatting of skin.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation. Liquid or vapor can cause moderate to severe irritation. May cause corneal injury.

**Ingestion:** Toxic if swallowed. Can cause blindness. Extreme overexposure may result in unconsciousness and possibly death.

**Existing conditions aggravated by exposure:** Other pre-existing skin conditions. Pre-existing skin, respiratory, central nervous system, liver and kidney conditions may be susceptible.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	CAS NUMBER	%
Methanol	67-56-1	30 - 60
2-Propanol	67-63-0	30 - 60
Adipic acid	124-04-9	1 - 5

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. Administer oxygen or artificial respiration as needed. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Induce vomiting immediately and call a physician.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	12 °C (53.6 °F)
<b>Autoignition temperature:</b>	399 °C (750.2 °F)
<b>Flammable/Explosive limits - lower:</b>	2 %
<b>Flammable/Explosive limits - upper:</b>	12.7 %
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
<b>Hazardous combustion products:</b>	Oxides of carbon.

#### 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Ventilate area. Remove all sources of ignition. Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. Spilled liquid is combustible and can be ignited by heat, flames, sparks, or other sources of ignition.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Keep container closed. Use only with adequate ventilation. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full.
<b>Storage:</b>	Store away from ignition sources. Keep away from heat, spark and flame. Store in original container until ready to use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m <sup>3</sup> ) TWA	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m <sup>3</sup> ) TWA	None	None
Adipic acid	5 mg/m <sup>3</sup> TWA	None	None	None

<b>Engineering controls:</b>	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Respiratory protection:</b>	When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Alcoholic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	44 mm hg (25 °C (77°F))
<b>Boiling point/range:</b>	82 °C (179.6 °F)
<b>Melting point/ range:</b>	Not determined
<b>Specific gravity:</b>	0.79
<b>Vapor density:</b>	Heavier than air.
<b>Flash point:</b>	12 °C (53.6 °F)
<b>Flammable/Explosive limits - lower:</b>	2 %
<b>Flammable/Explosive limits - upper:</b>	12.7 %
<b>Autoignition temperature:</b>	399 °C (750.2 °F)
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Miscible
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	100 %; 790 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon.
<b>Incompatible materials:</b>	Incompatible with oxidising agents. Acids. Oxidizing agents.
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methanol	No	No	No
2-Propanol	No	No	No
Adipic acid	No	No	No

Hazardous components	Health Effects/Target Organs
Methanol	Eyes, Heart, Irritant, Kidney, Liver, Metabolic, Nervous System, Reproductive
2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
Adipic acid	Irritant, Kidney, Liver, Nervous System, Respiratory

## 12. ECOLOGICAL INFORMATION

### Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** D001: Ignitable.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Alcohols, flammable, toxic n.o.s. (Methanol, Isopropanol)  
**Hazard class or division:** 3 (6.1)  
**Identification number:** UN 1986  
**Packing group:** II  
**DOT Reportable quantity:** Methanol

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Alcohols, flammable, toxic, n.o.s. (Methanol, Isopropanol)  
**Hazard class or division:** 3 (6.1)  
**Identification number:** UN 1986  
**Packing group:** II

### Water Transportation (IMO/IMDG)

**Proper shipping name:** ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Methanol, Isopropanol)  
**Hazard class or division:** 3 (6.1)  
**Identification number:** UN 1986  
**Packing group:** II

## 15. REGULATORY INFORMATION

### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12(b) Export Notification:** None above reporting de minimus

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Fire  
**CERCLA/SARA 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Methanol (CAS# 67-56-1).

**CERCLA Reportable quantity:** Methanol (CAS# 67-56-1) 5,000 lbs. (2,270 kg)  
2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)

**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

#### Canada Regulatory Information

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

**WHMIS hazard class:** D.2.B, B.2, D.2.A

## 16. OTHER INFORMATION

**This material safety data sheet contains changes from the previous version in sections:** New Material Safety Data Sheet format.

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