

Section 1: Chemical Product and Company Identification

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Cat#: 24355

Part Name: HARTMANN'S FIXATIVE (MODIFIED DAVIDSON'S FIXATIVE)

Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview

Causes skin and eye burns.

Causes skin, eye and respiratory tract irritation.

Flammable liquid and vapor.

Harmful if inhaled, absorbed through skin or swallowed.

Suspect cancer hazard.

GHS Classification

Carcinogen Category 2

Flammable Liquids Category 3

Serious Eye Damage Cat 1C, Skin Corrosion Cat 1C, Eye Irritation Cat 2B

Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Skin Irritant Cat 2, Acute Oral Toxicity Cat 4, Acute Inhalation Cat 4,

Signal word: Danger



Hazard and Precautionary Statements

H226	Flammable liquid and vapour.
H302 + H312	Harmful if swallowed or, in contact with skin or if inhaled
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280A	Wear protective gloves
P285	In case of inadequate ventilation wear respiratory protection.
P301A	IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351	Rinse cautiously with water for several minutes.
P501	Dispose of contents/container to proper waste area in accordance with institutional practices and local, state or federal regulations.

NFPA Rating

Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
2	3	0

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	2-Propanol	200-661-7	0000067630	21 - 30
2	Acetic acid	200-580-7	0000064197	11 - 20
3	Formaldehyde	200-001-8	0000050000	6 - 10
4	Methanol	200-659-6	0000067561	0 - 5
5	Water	231-791-2	0007732185	51 - 60

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
If swallowed, wash out mouth with water if person is conscious.
Remove to fresh air.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data Method: no data
UEL: no data LEL: no data Autoignition temperature, deg. F.: no data
Flammability Classification: no data Flame Propagation Rate: no data
Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.
Absorb liquids on absorbent material.
Contain spilled liquids.
Protect personnel from exposure.
Remove ignition sources.
Use appropriate personal protective equipment.
Ventilate the area.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000050000	IDLH: 20						
OSHA		Not classifi	--	2/15 mi	NE	--	--
ACGIH		--	--	--	--	0.3 c	0.37
CAS#: 0000064197	IDLH: 50						
OSHA		Not classifi	25	--	--	--	--
ACGIH		10	25	15	15	--	--
CAS#: 0000067561	IDLH: 6,000						
OSHA		ACGIH;CA	260	--	--	--	--
ACGIH		200	262	250	250	--	--
CAS#: 0000067630	IDLH: 2,000						

OSHA	CANADA	980	--	--	--	--
ACGIH	400	983	500	500	--	--
CAS#: 0007732185	IDLH: NE					
OSHA	NE	NE	NE	NE	NE	NE
ACGIH	NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Use process enclosures, local exhaust ventilation, or other engineering controls.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Section 9: Physical and Chemical Properties

Formula:	mixture	vapor pressure:	no data
Formula Weight:	mixture	vapor density:	no data
boiling point:	no data	Specific gravity:	0.954
melting point:	no data	ph:	no data
solubility:	soluble	appearance:	liquid

Section 10: Stability and Reactivity

Chemical Stabilit stable

Conditions to Avoid: no data

Incompatibility with other materials: strong oxidizers

Hazardous Decomposition Products: oxides of carbon

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: no data

Subchronic data: no data

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
0000050000	U122	Formaldehyde
0000064197	not listed	not listed
0000067561	U154	Methanol
0000067630	not listed	not listed
0007732185	not listed	not listed

Section 14: Transportation Data

Proper Shipping Name	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.
Chemical Name	ISOPROPANOLGLACIAL ACETIC ACIDFORMALDEHYDE
UN	UN2924
Class	3 8
PG	III

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000050000	Yes	no
0000064197	no	no
0000067561	Yes	no
0000067630	no	no
0007732185	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000050000	not listed
0000064197	not listed
0000067561	not listed
0000067630	not listed
0007732185	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000050000	Formaldehyde	0.1	not listed
0000064197	not listed	not listed	not listed
0000067561	Methanol	1.0	not listed
0000067630	Isopropyl alcohol (manufacturing-strong acid process, no su	1.0	not listed
0007732185	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000050000	Formaldehyde	500	100
0000064197	not listed	not listed	not listed
0000067561	not listed	not listed	not listed
0000067630	not listed	not listed	not listed
0007732185	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000050000	Formaldehyde	100
0000064197	Not listed	Not listed
0000064197	Acetic acid	5,000
0000064197	Acetic acid, glacial	5,000
0000064197	Vinegar acid	5,000
0000067561	Not listed	Not listed
0000067561	Methyl alcohol	5,000
0000067630	Not listed	Not listed
0007732185	Not listed	Not listed

Section 16: Other Information

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END OF MSDS