



1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name

Additive H-73277

Other means of identification

Recommended use of the chemical and restrictions on use

Material Uses

Additive.

Uses advised against

Verify Applications

Details of the supplier of the safety data sheet

Manufacturer

Hangsterfer's Laboratories, Inc., 175 Ogden Road, Mantua, NJ 08051; Phone 856-468-0216, Fax 856-468-0200, Website: www.hangsterfers.com

Emergency telephone number

Emergency telephone number

Chemtrec 1-800-424-9300 in US/Canada 1-613-996-6666 in Canada For international assistance, dial Chemtrec US number 1-703-527-3887

2. Hazards Identification

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1). Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 2A

Label Elements

EMERGENCY OVERVIEW

WARNING

Hazard statements

HARMFUL IF SWALLOWED

Harmful in contact with skin

Causes serious eye irritation



Appearance Clear

Physical state Liquid

Odor Mild

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Specific measures (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

• No additional remarks

3. Composition/information on Ingredients

Chemical Family Straight Oil Type.

Chemical name	CAS-No	Weight-%
Dichloroethyl ether	111-44-4	0.09
1,4-Dioxane	123-91-1	0.09

4. First aid measures**First aid measures**

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

Skin contact Wash skin with soap and water. Consult a physician if necessary. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. If symptoms persist, call a physician. Oxygen or artificial respiration if needed. IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary. Rinse mouth. If vomiting occurs, keep head below hips to prevent aspiration. Consult a physician or Poison Control Center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-fighting measures**Suitable extinguishing media**

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

None.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Halogenated compounds.

Explosion data Containers may explode when heated

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Avoid breathing vapors or mists. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

Other Information Report spills as required to the appropriate authorities.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for Clean-Up Take up mechanically, placing in appropriate containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take all appropriate steps to avoid contamination of ground water. Dispose of contents/container to an approved waste disposal plant.

7. Handling and Storage

Precautions for safe handling

Handling Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight.

Incompatible materials No information available.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,4-Dioxane 123-91-1	TWA: 20 ppm Skin	TWA: 360 mg/m ³ TWA: 100 ppm Skin	500 ppm

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection	Goggles.
Skin and Body Protection	Use protective gloves and clothing if contact with product is likely.
Respiratory protection	If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild
Appearance	Clear	Odor threshold	No information available
Color	Amber		
Property	Values	Remarks • Method	
pH	7		
Melting point / freezing point	-	May begin to solidify at -16 °C / 3.2 °F	
Boiling point	100 °C / 212 °F		
Flash point	> 100 °C / > 212 °F	Cleveland Closed Cup.	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit	No unusual hazard		
Lower flammability limit	No unusual hazard		
Vapor pressure	<0.1 mmHg @ 20 °C		
Vapor density	> 5		
Specific gravity	1.15		
Water solubility	Soluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	No unusual hazard		
Decomposition temperature	No unusual hazard		
Kinematic viscosity	125 cSt @ 40°C / 575 SUS @ 100°F		
Dynamic viscosity	No information available		
VOC Content, % Vol	Request additional information		

10. Stability and Reactivity

Reactivity

No unusual hazard

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

No information available.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Halogenated compounds.

11. Toxicological Information

Information on likely routes of exposure**Product Information**

Inhalation	Avoid breathing vapors or mists.
Eye contact	Avoid contact with eyes.
Skin contact	No data available.
Ingestion	May be harmful if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,4-Dioxane 123-91-1	= 5170 mg/kg (Rat) = 4200 mg/kg (Rat)	= 7600 µL/kg (Rabbit)	= 46 mg/L (Rat) 2 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No unusual hazard.
Serious eye damage/eye irritation May cause eye irritation.
Sensitization No known effect.
Mutagenic Effects No known effect.
Carcinogenicity No information available.

Chemical name	ACGIH	IARC	NTP Carc	OSHA
1,4-Dioxane 123-91-1	A3	Group 2B	Reasonably Anticipated	Yes

Reproductive effects No known effect.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic toxicity No known effect.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

Oral LD50 1951 mg/kg (rat)
Dermal LD50 > 2000 mg/kg (rat)
Inhalation LC50 2.9 mg/l (rat)

12. Ecological InformationEcotoxicity

Harmful to aquatic life

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1,4-Dioxane 123-91-1	No information available	10000: 96 h Lepomis macrochirus mg/L LC50 static 10000: 96 h Lepomis macrochirus mg/L LC50 semi-static 9850: 96 h Pimephales promelas mg/L LC50 9850: 96 h Pimephales promelas mg/L LC50 flow-through 10306 - 14742: 96 h Pimephales promelas mg/L LC50 static	EC50 = 610 mg/L 5 min EC50 = 668 mg/L 15 min EC50 = 733 mg/L 30 min	EC50 = 163 mg/L 48 h

Persistence/Degradability

No additional remarks.

Chemical name	Log Pow
1,4-Dioxane 123-91-1	-0.42

Other adverse effects No additional remarks

13. Disposal Considerations

Waste treatment methods

Waste Disposal Method Should not be released into the environment. Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Waste code 15 01 10 may apply to empty containers. Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
1,4-Dioxane 123-91-1	waste number U108	Included in waste stream: F039		waste number U108

Chemical name	California Hazardous Waste Status
1,4-Dioxane 123-91-1	Toxic; Ignitable; Reactive

14. Transport Information

DOT

UN-No Not regulated
Proper shipping name Not regulated
Hazard Class Not regulated
Packing group Not regulated
Labels Not regulated
Description Not regulated

TDG

UN-No Not regulated
Proper shipping name Not regulated
Hazard Class Not regulated
Packing group Not regulated
Labels Not regulated
Description Not regulated

IMDG/IMO

UN-No UN3082
Proper shipping name Environmentally Hazardous Substance, Liquid, n.o.s.
Hazard Class 9
Packing group III
Labels Not regulated
Description See above

ADR/RID

UN-No UN3082
Proper shipping name Environmentally Hazardous Substance, Liquid, n.o.s.
Hazard Class 9
Packing group III
ADR/RID-Labels Not regulated
Description See above

IATA

UN-No	UN3082
Proper shipping name	Environmentally Hazardous Substance, Liquid, n.o.s.
Hazard Class	9
Labels	-
Packing group	III
Description	See above

PG* : Packing group

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This material should be kept out of sewage and drainage systems and all bodies of water.

15. Regulatory information**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Dichloroethyl ether - 111-44-4	111-44-4	0.09	
1,4-Dioxane - 123-91-1	123-91-1	0.09	

SARA 311/312 Hazard Categories

Acute health hazard	yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Hazardous Substance Required Qty
1,4-Dioxane 123-91-1	100		RQ= 100lb final RQ RQ= 45.4kg final RQ

U.S. Regulations & Inventories**California Proposition 65**

An ingredient contained within this product is listed under California Proposition 65.

Chemical name	California Proposition 65
1,4-Dioxane - 123-91-1	Carcinogen

U.S. State Right-to-Know Regulations

The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered

hazardous. All other components are either listed on the TSCA inventory or are exempt from listing. See Section 16 for explanation of column headings.

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,4-Dioxane 123-91-1	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

CANADA

Chemical name	NPRI
1,4-Dioxane	X

16. Other information

NFPA	HEALTH 1	Flammability 1	Instability 0	Physical hazard -
HMIS	HEALTH 1	Flammability 1	Physical Hazards 0	Personal Protection -

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 Revision Summary

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS