

Issuing Date 01-Oct-2014

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Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Stop-Off Pen

Other means of identification

Part Number 2101258

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based marker

Uses advised against No information available

Supplier's details

Paul H. Gesswein & Co., Inc.,
201 Hancock Ave.,
Bridgeport, CT 06605
Phone: 203-366-5400, **FAX:** 203-366-3953

Emergency phone number: CHEMTEL - 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 1B
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word**Danger****Hazard Statements**

- May be harmful if swallowed
- Causes mild skin irritation
- Causes serious eye damage
- May damage fertility or the unborn child
- Harmful to aquatic life
- May cause drowsiness or dizziness
- Flammable liquid and vapor.

**Appearance** Varies, Thin viscosity,**Physical State** Liquid.**Odor** Ethereal odor**Precautionary Statements****Prevention**

- Wear eye/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Keep cool.

General Advice

- If exposed or concerned: Get medical attention/advice

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- None

Fire

- In case of fire: Use CO₂, dry chemical, or foam for extinction.

Spills and Leaks

- None

Storage

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

20.4906% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

AM33-Fine, and 44-Medium

Chemical Name	CAS-No	Weight %	Trade secret
Propanol	71-23-8	60-100	*
Diacetone alcohol	123-42-2	30-60	*
Propylene glycol monomethyl ether	107-98-2	10-30	*
Methyl pyrrolidone	872-50-4	1-5	*
Xanthylum,9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5...	84962-27-6	1-5	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash skin with soap and water. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Consult a physician if necessary
Protection of First-aiders	Use personal protective equipment. Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	Yes.

Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Conditions for safe storage, including any incompatibilities

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Products Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propanol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m ³	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 625 mg/m ³
Diacetone alcohol 123-42-2	TWA: 50 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 240 mg/m ³	IDLH: 1800 ppm TWA: 50 ppm TWA: 240 mg/m ³

Propylene glycol monomethyl ether 107-98-2	STEL: 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m ³	TWA: 100 ppm TWA: 360 mg/m ³ STEL: 150 ppm STEL: 540 mg/m ³
Xanthylum,9-(2-carboxyphenyl)-3,6-bis(diet hyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5... 84962-27-6	-	(vacated) Ceiling: 0.1 mg/m ³ Ceiling: 0.1 mg/m ³ CrO ₃ applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m ³ Cr(VI) TWA: 0.001 mg/m ³ Cr

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash goggles.

Skin and Body Protection Chemical resistant gloves. Risk of contact: Boots. Apron.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Varies Thin viscosity,
Odor	Ethereal odor	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	120-169.44 °C / 248-337 °F	None known
Flash Point	31.67 °C / 89 °F	None known
Evaporation rate	< 1 (BuAc = 1)	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available 7.00	
lower flammability limit	No data available 1.00	
Vapor Pressure	No data available	None known
Vapor Density	> 1 (air = 1)	None known
Specific Gravity	No data available.	None known
Water Solubility	Partially soluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Flammable; may be ignited by heat, sparks or flames.

Explosive Properties No data available

Oxidizing Properties No data available

Other information

VOC Content (%)	J3062 Black: 83.95%
	A735M Red: 86.9%
VOC (g/l)	J3062 Black: 815 g/L
	A735M Red: 725 g/L

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible products.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

Hazardous decomposition products

Carbon oxides. Smoke Soot.

11. TOXICOLOGICAL INFORMATION

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

May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

Eye Contact

Causes serious eye damage.

Skin Contact

Causes mild skin irritation

Ingestion

Ingestion may cause nausea and vomiting.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Propanol	= 1870 mg/kg (Rat)	= 4049 mg/kg (Rabbit)	> 13548 ppm (Rat) 4 h
Diacetone alcohol	= 4 g/kg (Rat)	= 13500 mg/kg (Rabbit)	-
Propylene glycol monomethyl ether	= 5200 mg/kg (Rat)	= 13000 mg/kg (Rabbit)	> 24 mg/L (Rat) 1 h = 54.6 mg/L (Rat) 4 h
Methyl pyrrolidone	= 3598 mg/kg (Rat)	= 2500 mg/kg (Rat) > 5000 mg/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Xanthylum,9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-,hydrogenbis[3-[(4,5-dihydro-3-methyl-5...		Group 3		

IARC: (International Agency for Research on Cancer)

Group 3: Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Avoid repeated exposure. May cause adverse liver effects. May cause adverse effects on the bone marrow and blood-forming system.
Target Organ Effects	Liver. Kidney. Respiratory system. Eyes. Skin. Central nervous system (CNS). Blood. Gastrointestinal tract (GI). Lungs.
Aspiration Hazard	No information available.

Numerical measures of toxicity - Product

Acute Toxicity 20.4906% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 2592 mg/kg; Acute toxicity estimate

LD50 Dermal 5899 mg/kg; Acute toxicity estimate

Inhalation dust/mist 44.8 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Propanol 71-23-8		LC50 96 h: = 4480 mg/L flow-through (Pimephales promelas)	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	EC50 48 h: = 3642 mg/L (Daphnia magna) EC50 48 h: 3339 - 3977 mg/L Static (Daphnia magna)
Diacetone alcohol 123-42-2		LC50 96 h: = 420 mg/L static (Lepomis macrochirus) LC50 96 h: = 420 mg/L (Lepomis macrochirus)		EC50 24 h: = 8750 mg/L (Daphnia magna)
Propylene glycol monomethyl ether 107-98-2		LC50 96 h: 4600-10000 mg/L static (Leuciscus idus) LC50 96 h: = 20.8 g/L static (Pimephales promelas)		EC50 48 h: = 23300 mg/L (Daphnia magna)
Methyl pyrrolidone 872-50-4	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 832 mg/L static (Lepomis macrochirus) LC50 96 h: = 4000 mg/L static (Leuciscus idus) LC50 96 h: = 1072 mg/L static (Pimephales promelas) LC50 96 h: = 1400 mg/L static (Poecilia reticulata)		EC50 48 h: = 4897 mg/L (Daphnia magna)

Persistence and Degradability No information available.**Bioaccumulation**

Chemical Name	Log Pow
Propanol	0.25 - 0.34
Diacetone alcohol	1.03
Propylene glycol monomethyl ether	-0.437
Methyl pyrrolidone	-0.46

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Propanol	Toxic Ignitable
Xanthylum,9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-,hydrogenbis[3-[(4,5-dihydro-3-methyl-5...	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

DOT

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III
Emergency Response Guide Number 128

TDG

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III

MEX

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III

ICAO

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III
Description UN1263, Paint, 3, III

IATA

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
ERG Code 3L
Description UN1263, Paint, 3, III

IMDG/IMO

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III

EmS No. F-E, S-E
Description UN1263, Paint, 3, III, (31.67°C c.c.)

RID

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Description UN1263, Paint, 3, III

ADR

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Tunnel Restriction Code (D/E)
Description UN1263, Paint, 3, III, (D/E)

ADN

Proper Shipping Name Paint
Hazard Class 3
Packing Group III
Classification Code F1
Special Provisions 163, 640E, 650
Description UN1263, Paint, 3, III
Limited Quantity 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

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 %
Methyl pyrrolidone	872-50-4	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xanthylum,9-(2-carboxyphe nyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro- 3-methyl-5...		X		

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Methyl pyrrolidone	872-50-4	Developmental

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Propanol	X	X	X		X
Diacetone alcohol	X	X	X		X
Propylene glycol monomethyl ether	X	X	X		X
Methyl pyrrolidone	X	X	X		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 3	Flammability 3	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 3*	Flammability 3	Physical Hazard 0	Personal Protection X

*Indicates a chronic health hazard.

Prepared By Product Stewardship
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Latham, NY 12110
1-800-572-6501

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General 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 Safety Data Sheet