

Safety Data Sheet

Preparation Date 20-May-2015

Revision date 03-Jan-2019

Revision Number: 4

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

Product identifier Product Description:	Stam M-4
Other means of identification	
Product code	12U-174A
UN/ID no.	UN1993
Registration number(s)	71085-36
Recommended use of the chemic	al and restrictions on use
Recommended use	Herbicide.
Uses advised against	Activities contrary to label recommendation
Details of the Supplier of the Safe	tv Data Sheet
Supplier Address	<u>y pata entet</u>
UPL NA Inc.	
630 Freedom Business Center	
Suite 402	
King of Prussia, PA 19406***	
Emergency telephone number	
Company Dhone Number	(000)025 1212

Emergency telephone number	
Company Phone Number	(888)835-1313
Emergency telephone number	(504) 439-3140
	(727) 374-5705

2. Hazards Identification

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 2
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
FLAMMABLE LIQUIDS	Category 3

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

HARMFUL IF SWALLOWED Harmful in contact with skin Fatal if inhaled Causes serious eye irritation Suspected of causing cancer May cause respiratory irritation Flammable liquid and vapor



Appearance brown Black

Physical state Liquid

Odor sweet

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Do not spray on an open flame or other ignition source Keep only in original container Ground/bond container and receiving equipment Take precautionary measures against static discharge Ground/bond container and receiving equipment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Propanil	709-98-8	44.8
Isophorone	78-59-1	30-31
Methyl isobutyl ketone	108-10-1	10-12

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

FIRST AID MEASURES		
Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.	
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.	
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.	
Ingestion	Call a physician or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.	
Protection of First-aiders	Use personal protective equipment.	
Most Important Symptoms and Eff	ects, Both Acute and Delayed	
Most Important Symptoms and Effects	no data available.	
Indication of Any Immediate Medic	al Attention and Special Treatment Needed	
Notes to physician	Treat symptomatically.	
	5. Fire-fighting measures	
Suitable extinguishing media Carbon dioxide (CO2). Use:. Dry chemical. Water spray. alcohol-resistant foam. Unsuitable extinguishing media no data available.		
<u>Specific hazards arising from the chemical</u> Thermal decomposition can lead to release of irritating gases and vapours.		
Hazardous combustion products Hydrogen chloride. Chlorine gas.		
Explosion data <u>Protective equipment and precautions for firefighters</u> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
As in any fire, wear self-contained br		
As in any fire, wear self-contained br		

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin and eyes. Remove all sources of ignition. Wear protective gloves/protective clothing and eye/face protection.
Environmental Precautions	
Environmental precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up	Pick up and transfer to properly labelled containers. Ground and bond containers when transferring material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	
7. Handling and Storage		
Precautions for safe handling		
Handling	Wear personal protective equipment. Avoid contact with skin and eyes. Remove all sources of ignition. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.	
Conditions for safe storage, including any incompatibilities		
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from light. Keep in properly labelled containers.	
incompatible materials	Strong oxidizing agents.	

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Isophorone	Ceiling: 5 ppm	TWA: 25 ppm TWA: 140 mg/m ³
		(vacated) TWA: 4 ppm (vacated) TWA: 23 mg/m ³
Methyl isobutyl ketone	STEL: 75 ppm	TWA: 100 ppm TWA: 410 mg/m ³
	TWA: 20 ppm	(vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m ³
		(vacated) STEL: 75 ppm (vacated) STEL: 300 mg/m ³
Engineering controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust	
	•	onsult ACGIH ventilation manual or NFPA Standard 91 for design
	of exhaust systems.	
Personal protective equipment		
Eye/Face Protection	Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. If splashes are likely to occur, wear:. Goggles.	
Skin protection	Wear protective gloves/clothing. Chemical resistant footwear plus socks. Long sleeved clothing.	
Respiratory protection	Select respirator with an organic vapor cartridge with prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister apporved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with organic vapor cartridge or canister with any N,P,R, or HE filter.	

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Appearance color	Liquid brown Black No information available	Odor	sweet
<u>Property</u> pH Melting point/freezing point	<u>VALUES</u> No information available no data available	Remarks/ • Method	
Boiling Point/Range Flash Point Evaporation Rate	No information available 43 °C / 109 °F No information available	Seta Closed Cup	

Flammability (solid, gas) Flammability limit in air	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
vapor pressure	5.3 mmHg @ 20 C/68 F
Vapor Density	9.3
Specific gravity	1.075
Water solubility	No information available
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/wate	rNo information available
Autoignition temperature	357 °C / 675 °F
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
OTHER INFORMATION	

Softening point	No information available
molecular weight	No information available
VOC Content	No information available
Liquid Density	No information available

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization Ha

Hazardous polymerisation does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Hydrogen chloride. Organic acids. chloroanilines.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information	Stam: (Information listed below are for a compositionally similar material): Oral LD50 (rat): >500 mg/kg Dermal LD50 (rat): > 2,000 mg/kg Inhalation LC50 (rat): > 2.8 mg/L for 4 hr Eye irritation (rabbit): substantial irritation Skin irritation (rabbit): Moderate irritation
Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes substantial but temporary eye injury.

	12.	Ecological Inform	ation			
LD50 Oral LD50 Dermal LC50 Inhalation	> 500 mg/k > 2000 mg/ Inhalation LC	U ()				
Numerical Measures of Tox	•					
Aspiration hazard	ration hazard No information available.					
Target organ effects			ES, skin, Central Nervous S	System (CNS).		
Chronic toxicity	Avoid repeated exposure.					
STOT - Repeated Exposure		no data available.				
Reproductive effects STOT - Single Exposure	Not Available no data availa					
108-10-1	Net Auglish					
Methyl isobutyl ketone	A3	Group 2B		Х		
sophorone 78-59-1	A3			-		
Chemical name	ACGIH	IARC	NTP	OSHA		
	carcinogen.					
Carcinogenicity			her any agency has listed a	ny ingredient as a		
Autagenic effects	no data availa					
Sensitization	No informatio	n available				
Delayed and immediate effe	ects as well as chronic	effects from short and	d long-term exposure			
Symptoms	No informatio	n available.				
nformation on Toxicologic	al Effects					
Ingestion	HARMFUL IF	HARMFUL IF SWALLOWED.				
Skill contact	Repeated of	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.				
Skin contact	Repeated or	prolonged skin contact r	nav cause allergic reactions	with susceptible persons		

ecotoxicity

for active ingredient - Propanil Bluegill sunfish 96 hr LC50 = 5.4 mg/L Rainbow trout 96 hr LC50 = 2.3 mg/L Quail Oral LD50 = 196 mg/kg Quail 8 day dietary LC50 = 2861 ppm Mallard duck 8 day dietary LC50 = 5627 ppm Daphnia magna 48 hr EC50 = 0.14 mg/L Estuarine and marine organism 48-96 hr EC50 = 0.4 - 5.8 mg/L

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Propanil	3.07
709-98-8	
Isophorone	1.66
78-59-1	
Methyl isobutyl ketone	1.19
108-10-1	

Other Adverse Effects

no data available

13. Disposal Considerations Waste Treatment Methods Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Contaminated packaging Refer to product label.

14. Transport Information

DOT UN/ID no. Proper shipping name Hazard class Packing group	When shipped in bulk or internationally the marine pollutant marking must also be added to the package. UN1993 Flammable liquid, n.o.s (Methyl isobutyl ketone) 3 PG III
ICAO UN/ID no. Proper shipping name Hazard class Packing group Description	UN 1993 Flammable liquid, n.o.s (Methyl isobutyl ketone) 3 PG III IMDG - Marine Pollutant (Propanil)
IATA_ UN/ID no. Proper shipping name Hazard class Packing group Description	UN1993 Flammable liquid, n.o.s (Methyl isobutyl ketone) 3 PG III IMDG - Marine Pollutant (Propanil)
IMDG UN/ID no. Proper shipping name Hazard class Packing group EmS No. Environmental hazards	UN1993 Flammable liquid, n.o.s (Methyl isobutyl ketone) 3 PG III F-E, S-E Environmental hazards (Propanil)

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word	WARNING
Ventilation Control	PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO

PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Causes substantial but temporary eve injury. Keep out of Reach of Children. Harmful if swallowed. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Toxic to fish and aquatic inverebrates.

International Inventories	
USINV	
DSL/NDSL	
FINECS/	

EINECS/	Not Present
ELINCS	
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

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

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

Not present Not present

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Γ	Isophorone		X	Х	
	78-59-1				

CERCLA

Not applicable

Chemical name	RQ	CERCLA EHS RQs	RQ
Isophorone 78-59-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Methyl isobutyl ketone 108-10-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
CERCLA			
Cor	monent		PO

Component	RQ
Isophorone	5000 lb
78-59-1 (30-31)	
Methyl isobutyl ketone	5000 lb
108-10-1 (10-12)	
SARA Product RQ 0	

SARA Product RQ

RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Methyl isobutyl ketone			U161
108-10-1 (10-12)			

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Propanil				Present

709-98-8 (44.8)			
Methyl isobutyl ketone		Х	
108-10-1 (10-12)			

State Regulations

Component	CAS No	CATEGORY
Methyl isobutyl ketone	108-10-1	Carcinogen
108-10-1 (10-12)		
Component	California Prop. 65	Non-additive, corrosive chemical type
Methyl isobutyl ketone	Carcinogen	

State Right-to-Know Not applicable International regulations U.S. EPA Label information EPA Pesticide registration number 71085-36

16. Other Information					
<u>NFPA</u>	HEALTH 3	flammability 2	Instability 0	Physical hazard -	
Preparation Date	20-Ma	20-May-2015			
Revision date	03-Ja	03-Jan-2019			
Revision Summary	,				
Address Update Sec	ction 16***				
Disclaimer					
The information co	ntained is based on ou	r knowledge of the produc	t at the date of publishi	ng.	
		se of formulation or mixtu			
Users are advised	of possible additional h	azards when the product i	is used in applications f	or which it was not intended.	

Users are advised of possible additional hazards when the product is used in applications for which it was not intende This sheet shall only be used and duplicated for prevention and Safety purposes.

For rates and use recommendations, refer to the information displayed on the packaging.

It is the responsability of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

End of SDS