

# SAFETY DATA SHEET

Issue Date 30-Dec-2023 Revision Date 30-Dec-2023 Version 1

### 1. IDENTIFICATION

Product identifier

Product Name AMIFA

Other means of identification

Product Code83529-254SynonymsNoneRegistration Number(s)83529-254

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Sharda USA LLC P.O. Box 640

Hockessin, DE 19707

**Emergency Telephone** 

Website: www.shardausa.com

Emergency telephone number

**Company Phone Number** 610-350-6930 (US)

+91 22 5678 2800 (India) CHEMTREC: 800-424-9300 CHEMTREC: 703-527-3887

POISON CONTROL CENTER: 800-222-1222

### 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 - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1

### Label elements

#### **Emergency Overview**

#### **Danger**

### **Hazard statements**

Harmful if inhaled Causes serious eye damage



Appearance Liquid Physical state liquid Odor Strong Aromatic

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

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

# **Precautionary Statements - Response**

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

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

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

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

May be harmful in contact with skin. Causes mild skin irritation. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

#### **Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

# <u>Mixture</u>

Chemical Name	CAS No	Weight-%
Solvent naphtha, petroleum, heavy aromatic *	64742-94-5	30 - 60
Fluroxypyr-meptyl	81406-37-3	20.22
Other ingredients *	Proprietary	10 - 30
Dipropylene glycol monomethyl ether *	34590-94-8	10 - 30
aminopyralid-tris(2-hydroxypropyl)ammonium	566191-89-7	1.92
Hexylene glycol *	107-41-5	1 - 5

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Call a poison control center or doctor for treatment advice. Have the product containers or

label with you when calling a poison control center or doctor, or going for treatment.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control

center or doctor for treatment advice.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Call a poison control center or doctor for treatment advice.

**Inhalation** Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately. Call a poison control center or

doctor for treatment advice.

Ingestion Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not

induce vomiting without medical advice. Never give anything by mouth to an unconscious

person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

# Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. May result in permanent damage including

blindness.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Probable

mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Unsuitable extinguishing media None.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Hydrogen chloride.

Explosion data

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

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

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.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up

and shovel into suitable containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Do not eat, drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled

containers.

**Packaging materials** Do not reuse container.

**Incompatible materials** Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL/IDLH
Solvent naphtha, petroleum, heavy	TWA - 200 mg/m³ (non-aerosol as	TWA - 400 mg/m³ (hydrocarbons,	-
aromatic 64742-94-5	total hydrocarbon)	unspecified)	
Dipropylene glycol monomethyl	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
ether	TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>	TWA: 100 ppm
34590-94-8	S*	S*	TWA: 600 mg/m <sup>3</sup>
			STEL: 150 ppm
			STEL: 900 mg/m <sup>3</sup>
Hexylene glycol	STEL: 50 ppm vapor fraction	-	Ceiling: 25 ppm
107-41-5	STEL: 10 mg/m³ inhalable		Ceiling: 125 mg/m <sup>3</sup>
	particulate matter, aerosol only		
	TWA: 25 ppm vapor fraction		

NIOSH REL/IDLH Recommended Exposure Limit/Immediately Dangerous to Life or Health

#### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or

boots.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded

or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with regulations.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical stateliquidAppearanceLiquidOdorStrong AromaticColorlight yellowOdor thresholdNo information available

Property Values Remarks • Method

pH 6.42 solution (1 %)
Melting point / freezing point No information available

Boiling point / boiling range

Flash point

No information available

118.4 °C / 245 °F

Seta Closed Cup

**Evaporation rate**Flammability (solid, gas)
No information available
No information available

Flammability Limit in Air
Upper flammability limit:
No information available

Lower flammability limit: No information available

Vapor pressure ~0.5 mmHg @ 25 °C Vapor density No information available

Relative density

Water solubility

1.034 g/mL

Emulsifies

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Kinematic viscosity > 20.5 mm2/s @ 40 °C

Dynamic viscosity

Explosive properties

Oxidizing properties

No information available

Not an explosive

Not applicable

#### **Other Information**

Softening point
Molecular weight
VOC Content (%)
Density
No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to avoid**

Elevated Temperature. Storage near to reactive materials.

# **Incompatible materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Hydrogen chloride.

\_\_\_\_\_\_

#### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Harmful by inhalation.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin contact** Based on available data, the classification criteria are not met.

**Ingestion** Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
Fluroxypyr-meptyl 81406-37-3	= 3162 mg/kg (Rat)> 5000 mg/kg (Rat)	= 2 g/kg (Rat)	-
Dipropylene glycol monomethyl ether 34590-94-8	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Hexylene glycol 107-41-5	= 3700 mg/kg (Rat)	= 12300 mg/kg (Rabbit)= 8560 µL/kg (Rabbit)	> 310 mg/m³ (Rat)1 h

#### Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. May result in permanent damage including

blindness.

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

Sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT - single exposure Based on available data, the classification criteria are not met. STOT - repeated exposure Based on available data, the classification criteria are not met. Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin. Based on available data, the classification criteria are not met. **Aspiration hazard** 

### Numerical measures of toxicity - Product Information

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

ATEmix (oral) 6,692.00 mg/kg
ATEmix (dermal) 2,359.00 mg/kg
ATEmix (inhalation-dust/mist) 4.23 mg/l

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

This product is toxic to fish. Drift or runoff from treated areas may be hazardous to aquatic organisms and non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Solvent naphtha, petroleum, heavy	2.5: 72 h Skeletonema costatum	19: 96 h Pimephales promelas mg/L	0.95: 48 h Daphnia magna mg/L
aromatic	mg/L EC50	LC50 static 41: 96 h Pimephales	EC50
64742-94-5		promelas mg/L LC50 45: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 2.34: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		1740: 96 h Lepomis macrochirus	
		mg/L LC50 static	
Dipropylene glycol monomethyl	-	10000: 96 h Pimephales promelas	1919: 48 h Daphnia magna mg/L
ether		mg/L LC50 static	LC50
34590-94-8			
Hexylene glycol	-	10500 - 11000: 96 h Pimephales	2700 - 3700: 48 h Daphnia magna
107-41-5		promelas mg/L LC50 flow-through	mg/L EC50
		8690: 96 h Pimephales promelas	
		mg/L LC50 flow-through 10700: 96	
		h Pimephales promelas mg/L LC50	
		static 10000: 96 h Lepomis	
		macrochirus mg/L LC50 static	

### Persistence and degradability

Not readily biodegradable.

#### **Bioaccumulation**

Chemical Name	Partition coefficient
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	2.9 - 6.1
Dipropylene glycol monomethyl ether 34590-94-8	-0.064
Hexylene glycol 107-41-5	<0.14

### Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal

law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on

proper disposal of waste product.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations. Consult product label for additional information. Do not reuse container.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

<u>IATA</u>

UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-meptyl), 9, III

\_\_\_\_\_\_

#### **IMDG**

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class9Packing GroupIIIEmS-NoF-A, S-FSpecial Provisions274, 335

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr-meptyl), 9, III

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

#### Legend:

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European 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

#### **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	SARA 313 - Threshold Values %
Dipropylene glycol monomethyl ether - 34590-94-8	1.0
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, 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

# **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

\_\_\_\_\_\_

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dipropylene glycol monomethyl	X	X	X
ether			
34590-94-8			
Hexylene glycol	X	X	X
107-41-5			

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-254

#### **EPA Statement**

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:

#### Difference between SDS and EPA Pesticide label

DANGER: Corrosive. Causes Irreversible Eye Damage. Harmful If Swallowed. Do not get in eyes or on clothing. Avoid contact with skin.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

 Issue Date
 30-Dec-2023

 Revision Date
 30-Dec-2023

**Revision Note** 

No information available

Procedure used to derive the classification

Justification - Calculation method

#### Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

\_\_\_\_\_