

## Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 22/11/2021

Version: 0.0/CA (eng)

SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name Name Product code Registration #	<ul> <li>OPPORTUNITY 15 SL HERBICIDE</li> <li>Glufosinate ammonium</li> <li>SHA 5600 D</li> <li>34332</li> </ul>
1.2. Relevant identified uses of the substance or	mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Herbicide
<b>1.2.2. Uses advised against</b> No additional information available	
1.3. Details of the supplier of the safety dat	a sheet
Sharda Cropchem Ltd. 2nd Floor, Prime Business Park, Dashrathlal Joshi F 400056 Mumbai - India T + 91 22 6261 5615 - F + 91 22 6678 2828 <u>regn@shardaintl.com</u>	Road, Vile Parle (West)
1.4. Emergency telephone number	
Emergency number	: 112
SECTION 2: Hazards identification 2.1. Classification of the substance or mixt Classification according to Regulation (EC) No. 1 Flammable liquids, Category 3 Acute toxicity (inhalation:vapour) Category 3 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1	
Reproductive toxicity, Category 1B	H360
Specific target organ toxicity — Repeated exposure, Hazardous to the aquatic environment — Chronic H Full text of H-statements: see section 16	
Adverse physicochemical, human health and en	vironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP)	/2008 [CLP]
Signal word (CLP) Contains	<ul> <li>GHS02 GHS05 GHS06 GHS08</li> <li>Danger</li> <li>glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate; Alcohols, C 12-14, ethoxylated, sulfates, sodium salts</li> </ul>

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Hazard statements (CLP)	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H331 - Toxic if inhaled.</li> <li>H360 - May damage fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use.P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting equipment.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water .</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER or doctor.</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378 - In case of fire: Use media other than water to extinguish.</li> <li>P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Store locked up</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C 12-14, ethoxylated, sulfates, sodium salts	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8 (REACH-no) 01-2119488639-16	10-50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
glufosinate ammonium (ISO); ammonium 2-amino-4- (hydroxymethylphosphinyl)butyrate	(CAS-No.) 77182-82-2 (EC-No.) 278-636-5 (EC Index-No.) 015-155-00-X	14	Repr. 1B, H360Fd Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT RE 2, H373
1-Methoxy-2-propanol substance with a Community workplace exposure limit	(CAS-No.) 107-98-2 (EC-No.) 203-539-1 (EC Index-No.) 603-064-00-3 (REACH-no) 01-2119457435-35	1-10	Flam. Liq. 3, H226 STOT SE 3, H336

Full text of H- and EUH-statements: see section 16

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4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	: Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap.
First-aid measures after eye contact	: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking of soft contact lenses and immediately take medical advice.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substance	or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>In case of fire and/or explosion do not breathe fumes.</li> <li>Risk of explosion if heated under confinement. May form flammable/explosive vapour-air mixture.</li> <li>Carbon monoxide. Nitrogen oxides. Carbon dioxide. Toxic fumes may be released. May</li> </ul>
5.3. Advice for firefighters	release flammable gases.
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Appropriate self-contained breathing apparatus may be required. Get the package away from the fire if this can be done without risk. Prevent fire fighting water from entering the environment.
Protection during firefighting Other information	<ul> <li>Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not allow material to contaminate surface water system. In case of fire, corrosive and harmful gases come free.</li> </ul>

SECTION 6: Accidental release measures	
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6.1. Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). EN 166. Wear eye protection. Personal protective equipment. EN ISO 20345.
Emergency procedures	: Evacuate personnel to a safe area.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable hand, body and head protection.
6.2. Environmental precautions	

Danger of pollution of drinking water when product enters the soil. Do not allow run-off from fire fighting to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up	
For containment Methods for cleaning up	<ul> <li>Label the container and provide warning statements to prevent any contact.</li> <li>Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean spills promptly. Wash contaminated area with large amounts of water.</li> </ul>

## 6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Do not allow run-off from fire fighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
Precautions for safe handling	: Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling.
7.2. Conditions for safe storage, including an	y incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas. Store locked up.
Storage conditions	: Keep only in original container. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Protect from sunlight.
Storage temperature	: 0 – 30 °C
Packaging materials	: Keep only in the original container in a cool,well-ventilated place away from combustible materials.

7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

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#### Eye protection:

EN 166. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Long sleeved protective clothing

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

Extra personal protection: P2 filter respirator for harmful particles. Extra personal protection: P3 filter respirator for toxic particles

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Liquid Colour No data available Odour No data available : Odour threshold : No data available pН : 6-7 Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available Boiling point : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.085 g/cm<sup>3</sup> Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : 636.866 mm<sup>2</sup>/s Viscosity, kinematic : 691 mPa·s Viscosity, dynamic

: No data available

: No data available

: No data available

#### 9.2. Other information

Explosive properties Oxidising properties

Explosive limits

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### **10.2. Chemical stability**

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

**10.4. Conditions to avoid** 

Heat. High temperature. Open flame. Direct sunlight.

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Toxic if inhaled.	
glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate (77182-82-2)		
LD50 oral rat	1510 mg/kg bodyweight	
LD50 dermal rat	< 2000 mg/kg bodyweight	
LC50 Inhalation - Rat	1.26 mg/l/4h	
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:	Causes skin irritation. Causes serious eye damage. Not classified Not classified Not classified May damage fertility or the unborn child. Not classified May cause damage to organs through prolonged or repeated exposure. Not classified	
OPPORTUNITY 15 SL HERBICIDE		
Viscosity, kinematic	636.866 mm²/s	

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

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glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate (77182-82-2)		
LC50 - Fish [1]	710 mg/l (96 h, Oncorhynchus mykiss)	
EC50 - Crustacea [1]	668 mg/l (48 h, <i>Daphnia magna</i> )	
ErC50 algae	> 80 mg/l (72 h, <i>Pseudokirchneriella subcapitata</i> )	
12.2. Persistence and degradability		
glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate (77182-82-2)		
Persistence and degradability	Not readily biodegradable.	
12.3. Bioaccumulative potential		
glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate (77182-82-2)		
BCF - Fish [1]	< 1	
Partition coefficient n-octanol/water (Log Pow)	-4.01 (pH 7)	
12.4. Mobility in soil		
glufosinate ammonium (ISO); ammonium 2-amino-4-(hydroxymethylphosphinyl)butyrate (77182-82-2)		
Surface tension	72.1 mN/m (1 g/L)	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		

SECTION 13: Disposal considerations
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### 13.1. Waste treatment methods

Regional legislation (waste) Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

: Avoid release to the environment. Disposal must be done according to official regulations. Do not dispose of the packaging without first carrying out the necessary cleaning. Refer to manufacturer/supplier for information on recovery/recycling.

#### SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	l	1		
UN 2902	UN 2902	UN 2902	UN 2902	UN 2902
14.2. UN proper shippin	g name	1		
PESTICIDE, LIQUID, TOXIC, N.O.S.	PESTICIDE, LIQUID, TOXIC, N.O.S.	PESTICIDE, LIQUID, TOXIC, N.O.S.	PESTICIDE, LIQUID, TOXIC, N.O.S.	PESTICIDE, LIQUID, TOXIC, N.O.S.
Transport document descr	iption			
UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S., 6.1, III, (E)	UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S., 6.1, III			
14.3. Transport hazard class(es)				
6.1	6.1	6.1	6.1	6.1

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6	6	6	6	6
14.4. Packing group				
111	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary informatio	n available			
14.6. Special precautions f	or user			
Overland transport				

### Land transport

TDG Hazard class	: 6.1
Packing group	: III
ID number	: UN2902
Hazard label	: 6.1
Proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (contains GLUFOSINATE AMMONIUM)
Classification code (ADR)	: T6
Special provisions (ADR)	: 61, 274, 648
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions	: TP2, TP28
(ADR)	
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading	: CV13, CV28
and handling (ADR)	
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	· 60
	00
	2902
Tunnel restriction code (ADR)	: E
Transport by sea	
Special provisions (IMDG)	: 61, 223, 274
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2

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Properties and observations (IMDG)	: Liquid pesticides which present a very wide range of toxic hazard. Miscibility with water depends upon the composition. Toxic if swallowed, by skin contact or by inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3, A4
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T6
Special provisions (ADN)	: 61, 274, 648, 802
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: T6
Special provisions (RID)	: 61, 274, 648
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions	: TP2, TP28
(RID)	
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE8, CE12
Hazard identification number (RID)	: 60

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals: Glufosinate, including glufosinate-ammonium (77182-82-2)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition : according to Regulation (EU) 2015/830. regulations

#### 15.1.2. National regulations

Refer to protective measures listed in Sections 7 and 8

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### 15.2. Chemical safety assessment

Refer to protective measures listed in Sections 7 and 8

### SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Liq. 3	Flammable liquids, Category 3	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	
H360	May damage fertility or the unborn child.	
H360Fd	May damage fertility. Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	

Other data Date of issue: Version: Replaces: Indication of changes:

22/11/2021 0.0/CA (eng)

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ation of changes:

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.