SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date 13-Mar-2022

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier				
Product Name	FASTER			
Product Code(s)	TP.1015.H.1ISR			
Chemical name	Glufosinate ammonium 200 SL			
Pure substance/mixture	Mixture			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Recommended use	Herbicide; For professional users only			
Uses advised against	No information available			

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Tapazol Chemical Works Ltd. 1st HaSolela st. West. Ind. Zone Beit Shemesh, Israel 9905415 Tel:+972-2-992-6040 Fax: +972-2-9926050 For further information, please contact sds@tapazol.co.il

#### 1.4. Emergency telephone number

Emergency Telephone

+972 4 777 1900 National Institute for Information on Poisoning Rambam Health Care Campus, Haifa, Israel

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008	
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 1B - (H360Fd)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)

#### 2.2. Label elements

Contains Glufosinate ammonium

# FASTER



Danger

#### Hazard statements

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H360Fd - May damage fertility. Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

## Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water/...

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P501 - Dispose of contents/ container to an approved waste disposal plant

## Additional information

This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

#### Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
Glufosinate ammonium	Group III Chemical	-

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

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glufosinate ammonium	278-636-5	77182-82-2	17-22	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Repr. 1B (H360Fd*) STOT RE 2 (H373)
1-methoxypropan-2-ol	203-539-1	107-98-2	7-11	STOT SE 3 (H336) Flam. Liq. 3 (H226)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	-	68891-38-3	4-8	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

Aquatic Chronic 3 (H412)
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#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Eye contact	Get immediate medical advice/attention. 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. Keep eye wide open while rinsing. Do not rub affected area.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	Burning sensation. Prolonged contact may cause redness and irritation.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

# SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Small Fire Large Fire	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam Dike fire-control water for later disposal Move containers from fire area if you can do it without risk	
<b>Unsuitable extinguishing media</b> Do not scatter spilled material with high pressure water streams.		
5.2. Special hazards arising from the substance or mixture		

#### 5.3. Advice for firefighters

Special protective equipment for Firefighters should wear self-contained breathing apparatus and full firefighting turnout

## fire-fighters

gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

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

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
7.3. Specific end use(s)	

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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

## 8.1. Control parameters

**Exposure Limits** 

Chemical name	European Union	Austria	Belgium		Bulgaria
1-methoxypropan-2-ol 107-98-2	TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 568 mg/m <sup>3</sup> *	TWA: 50 ppm TWA: 187 mg/m <sup>3</sup> STEL 50 ppm STEL 187 mg/m <sup>3</sup> Ceiling: 50 ppm Ceiling: 187 mg/m <sup>3</sup> H*	TWA: 50 ppm TWA: 184 mg/m <sup>3</sup> STEL: 100 ppm STEL: 369 mg/m <sup>3</sup> *	STEL: 563 mg/m <sup>3</sup> H*	STEL: 150 ppm STEL: 568.0 mg/m <sup>3</sup> TWA: 100 ppm TWA: 375.0 mg/m <sup>3</sup> K*
Chemical name	Denmark	Germany	France	United Kingdom	Spain
1-methoxypropan-2-ol	TWA: 50 ppm	TWA: 100 ppm	TWA: 50 ppm	TWA: 100 ppm	TWA: 100 ppm
107-98-2	TWA: 185 mg/m <sup>3</sup>	TWA: 370 mg/m <sup>3</sup>	TWA: 188 mg/m <sup>3</sup>	TWA: 375 mg/m <sup>3</sup>	TWA: 375 mg/m <sup>3</sup>
	H*		STEL: 100 ppm	STEL: 150 ppm	STEL: 150 ppm
			STEL: 375 mg/m <sup>3</sup>	STEL: 560 mg/m <sup>3</sup>	STEL: 568 mg/m <sup>3</sup>
			*	Sk*	vía dérmica*

## **Biological occupational exposure limits**

Chemical name	Denmark	Finland	Fra	ince	Germany		Germany MAK
1-methoxypropan-2-ol 107-98-2	-	-		-	15 mg/L (urin 1-Methoxypropa ol end of shit 15 mg/L - BAT of exposure or of shift) urin	an-2- ft) (end end	15 mg/L (urine - 1-Methoxypropan-2- ol end of shift)
Chemical name	Slovenia	Spair	1	Sw	itzerland		United Kingdom
1-methoxypropan-2-ol 107-98-2	15 mg/L - urine (1-Methoxypropan-2-ol) at the end of the work shift	-		1-Methoxy	g/L (urine - /propanol-2 end of shift)		-

#### 8.2. Exposure controls

## Personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties		
Appearance	Clear blue liquid	
Physical state	Liquid	

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Property	Values	Remarks • Method
pH pH (as aqueous solution)	5.0 - 7.5	@ 25 °C
Melting point / freezing point	3.0 - 7.5	@ 20 0
Boiling point / boiling range		
Flash point	> 100 °C	
Evaporation rate	No data available.	
Flammability (solid, gas)	No data available.	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available.	
Lower flammability or explosive limits	No data available.	
/apor pressure	No data available.	
/apor density	No data available.	
Relative density	1.07 - 1.11 g/ml	
Nater solubility	Soluble in water	
Solubility(ies)	No data available.	
Partition coefficient	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature		
Kinematic viscosity	No data available.	
Dynamic viscosity	No data available.	

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stability

Stable under normal conditions.

#### Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Oral LD50 Dermal LD50 Inhalation LC50	<ul> <li>&gt; 2500 mg/kg. Based on available data, the classification criteria are not met.</li> <li>&gt; 2000 mg/kg. Based on available data, the classification criteria are not met.</li> <li>No data available. Based on calculation method, the classification criteria are not met.</li> </ul>
Skin corrosion/irritation	Non-irritating to the skin. Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Non-irritating to the eyes. Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Skin Sens. Cat 1 - H317. Classification based on test data.

## Germ cell mutagenicity

Chemical name	European Union
Glufosinate ammonium	Not classified
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#### Carcinogenicity

Chemical name	European Union
Glufosinate ammonium	Not classified

## **Reproductive toxicity**

Chemical name	European Union
Glufosinate ammonium	Repr. 1B (H360Fd)

STOT - single exposure	Not classified. (Based on calculation method classification criteria are not met).
STOT - repeated exposure	Cat 2 (H373) - May cause damage to organs through prolonged or repeated exposure. Classification based on calculation method.
Aspiration hazard	Not classified. (Based on available data, the classification criteria are not met).

# **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Ecotoxicity

Non-toxic to honeybees. Not classified. Based on calculation method, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
	Acute toxicity: LC50 =NA; Chronic toxicity: NOEC = NA	5	-	Acute toxicity: LC50 = 15 mg; Chronic toxicity: NOEC = NA

## 12.2. Persistence and degradability

data available.

12.3. Bioaccumulative potential	
Bioaccumulation	There is no data for this product.
Bioconcentration factor (BCF)	Estimated: 3.2 (Low risk for bioaccumulation)

## **Component Information**

Chemical name	Partition coefficient
Glufosinate ammonium	Log P:-3.96
1-methoxypropan-2-ol	-0.437

## 12.4. Mobility in soil

Mobility in soil

High to low soil mobility based on Koc values of 9.6 to 1,229.

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The components in formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Glufosinate ammonium	The substance is not PBT / vPvB
1-methoxypropan-2-ol	The substance is not PBT / vPvB
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	The substance is not PBT / vPvB PBT assessment does
	not apply

## 12.6. Other adverse effects

#### **Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disrupters	EU - Endocrine Disrupters -
	Candidate List	Evaluated Substances
Glufosinate ammonium	Group III Chemical	-

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# **SECTION 14: Transport information**

## IMDG

	·	
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Marine pollutant	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
14.7.	Transport in bulk according to	
Anne	x II of MARPOL and the IBC	
Code		
<u>RID</u>		
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
	-	

ADR		
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
<u>IATA</u>	_	
14.1	UN number	Not regulated
14.2	UN proper shipping name	Not regulated
14.2 14.3	UN proper shipping name Transport hazard class(es)	0
		Not regulated
14.3	Transport hazard class(es)	Not regulated Not regulated
14.3 14.4	Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated
14.3 14.4 14.5 14.6	Transport hazard class(es) Packing group Environmental hazards	Not regulated Not regulated Not regulated

## **SECTION 15: Regulatory information**

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

#### National regulations

#### France

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
1-methoxypropan-2-ol	RG 84	-
107-98-2		

#### Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Glufosinate ammonium - 77182-82-2	30.	

#### Persistent Organic Pollutants

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

#### International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

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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

#### 15.2. Chemical safety assessment

## **SECTION 16: Other information**

## Key or legend to abbreviations and acronyms used in the safety data sheet

## Full text of H-Statements referred to under section 3

- H226 Flammable liquid and vapor
- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H315 Causes skin irritation
- H332 Harmful if inhaled

H336 - May cause drowsiness or dizziness

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

## Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: Exposure controls/personal protection

		•	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

#### **Classification procedure**

H317 - Classification based on test data H319 - Classification based on Plant Protection authority opinion in Israel H332 - Classification based on Plant Protection authority opinion in Israel

H360Fd - Classification based on calculation method

H373 - Classification based on calculation method

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date 13-Mar-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this 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**