Release date: 11.02.2009
Revision date: 31.07.2018
Version: 11

SAFETY DATA SHEET
FOZÁT 480

1 SECTION: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1 Product identifiers

Trade name: Fozát 480
CAS: 38641-94-0
Active ingredient: N-(phosphonomethyl)glycine, compound with 2-propylamine

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: herbicide in agricultural production
Exclusively used as an herbicide. The product comes ready to use for the end user form or a form that has to be filled final container.

1.3 Details of the supplier of the safety data sheet:

Company name: AGRO-CHEMIE Kft.
Address: 1225 Budapest, Bányalég u. 47-59.
Telephone: (+36) 1/9000-800 Fax: (+36) 1/9000-810
Email address: peter.czegledi@agrochemie.hu
Emergency telephone: (+36) 1/9000-800 (8-16)

1.4 Emergency information:

Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
1096 Budapest, Nagyvárad tér 2.
Telephone: (36) 1/476-6464, (36) 80/201-199 (0-24)

2 SECTION: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Hazard class and category	**Hazard statement(s)**
Aquatic Acute 1	H400- Very toxic to aquatic life
Aquatic Chronic 1	H410- Very toxic to aquatic life with long lasting effects

2.2 Label elements

Pictogram: (Labelling according Regulation (EC) No 1272/2008)

GHS 09

Signal word **Warning**

Hazard statement(s):

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P391 - Collect spillage.
SP1 - Do not contaminate waters with pesticides or containers! (Do not clean equipment or its parts in the vicinity of surface waters! Avoid contamination of drains)

2.3 Other hazards

Other crop protection regulation:
It must not be used inside the drinking water protection zone, it can be used on the external protective zone and within the hydrogeological protective zone depending on authorization.
For the sake of human health and prevent threats to the environment, observe the instructions for use.
Read the instructions before use and make sure you understand!

3 SECTION: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: -

3.2 Active Ingredient:

Substance	Conc. (%)	Classification	Hazard statement(s)	CAS	EC/ List no.	REACH No.
N-(phosphonomethyl) glycine, compound with 2-propylamine	41 %	Eye Irrit. 2 Aquatic Chronic 2	H319 H411	38641-94-0	254-056-8	-
Wetting agent	< 4 %	Skin irrit. 2 Eye Dam. 1 Aquatic Chronic 3	H315 H318 H412	-	931-700-2	01-2119529251-48-xxxx

The other components of the product are not considered as a hazardous substance under the existing legislation, or their concentration in the formulation does not reach the level above the presence of the hazard classification should be made and should be considered.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4 SECTION: FIRSTAID MEASURES

4.1 First aid:

General information: Immediately remove contaminated clothing.
Inhalation: In case of inhalation remove person to fresh air and keep him quiet and warm. If you feel unwell, seek medical advice.
Skin: Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water. Wash clothing before re-use. Get medical attention if irritation occurs.
Eye: Flush eyes promptly with copious flowing water for at least 15 minutes. Get medical attention immediately.
Ingestion: If swallowed, wash mouth thoroughly with plenty of water and give water to drink.
Get medical attention immediately. Never give an unconscious person anything to drink.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

In case of poisoning, allergic disease, or suspected, the work should be discontinued immediately in half, and after-the-spot first aid medical care institutions need to ensure and show the label to the physician, respectively.

5 SECTION: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Carbon dioxide, foam, powder, water spray. Use appropriate extinguishing media to surrounding fire conditions.
Unsuitable extinguishing media: a strong, high-volume water jet; the products pose a threat to the environment, do not dilute them.

5.2 Special hazards arising from the substance or mixture:

Toxic fumes under fire conditions (CO, CO_2, NO_x, PO_x).

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and chemical-protective clothing.

5.4 Further information:

In case of fire and/or explosion do not breathe fumes. Enclose the area of fire and keep unprotected persons far away. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6 SECTION: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Protective gloves and respirator. Avoid contact with skin and eyes. Evacuate the area of all non-essential personnel. The usual safety measures for chemical substances must be observed. Remind employees adverse health impacts of products.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Spillage: absorb with sand. Prevent contamination of water and sewer system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Information concerning the personal protective equipment can be found in section 8.
For disposal see section 13.

7 SECTION: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing vapours. Use with adequate ventilation. Do not smoke, eat or drink during treatment. Handle with care. Stir well before use.
When using do not eat, drink or smoke. Wash hands after handling the product.

It is suggested to wash hands thoroughly in breaks and after worktime. Avoid every spark and fire sources. Protect from electrostatistic filling up.

7.2 Conditions for safe storage, including any incompatibilities

The products were stored in original, unopened packaging, well-ventilated, cool, dry place. It should be stored to prevent access by children. Food, beverages and animal feed must be kept separate. Store in a solid, well-floored warehouse insulation to prevent environmental contamination.

Minimum storage temperature: - 5 °C

Maximum storage temperature: 50 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 SECTION: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Substances: no data available

The product does not contain component, which has limit value.

8.2 Exposure controls:

Compliance with license conditions the user is not exposed unacceptable.

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Technical measures:

- Usual safety measures for chemical substances must be respected.
- Ensure adequate ventilation.
- Safety equipment, providing washing facilities.

Hygiene measures:

- While you work, do not eat, drink or smoke!
- The work breaks and after the work is completed thorough hand washing or washing required.
- Separate working clothes from everyday clothing.

8.2.2 Personal protective equipment:

Respiratory: It is not needed in case of normal use. If it is irritating for someone, please use respiratory system.

Hand: In normal use wearing of protective gloves are not required but recommended. The glove material must be impermeable against the product / substance / the preparation. Forearm half-length of at least 0.2 mm thick neoprene, nitrile or butyl plastic gloves recommended.

Always do a risk assessment about the workplace and choose the best equipment for the people.

Skin: Completed protective clothes against chemicals. The type of the protective clothing depends on the concentration and quantity at workplaces.

Eye: Special measures are not necessary with proper using the product. Avoid contact with the eyes.

8.2.3 Environmental exposure controls:

Do not release into the environment

9 SECTION: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	yellow, viscous liquid

Odour	No data available
Odour Threshold	No data available
pH érték	4,5-5,5 (20 °C)
Melting point/ freezing point	No data available
Solubility	Soluble in water
Partition coefficient: noctanol/water	NA
Relative density	1.16-1,17 kg/dm^3 (20 °C)
Upper/lower flammability or explosive limits	Non-flammable
Boiling point	~100 ^{0}C
Vapour density	No data available
Vapour pressure	No data available
Flash point	Non-flammable
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Auto-ignition temperature	No data available

9.2 Other safety information

No data available

10 SECTION: STABILITY AND REACTIVITY

10.1 Reactivity: No data available.

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: Under normal circumstances it is not possible hazardous reactions.

10.4 Conditions to avoid: High temperatures (>45 °C).

10.5 Incompatible materials: Bases.

10.6 Hazardous decomposition products: Toxic fumes under fire conditions (CO, CO2, NOx, POx).

11 SECTION: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity

  Oral: LD_{50}: >2000 mg/kg (rat male)

  Dermal: LD_{50}: >2000 mg/kg (male and female rat)

  Inhalation: LC_{50} (4h): >5000 mg/l (male and female rat)
- Skin corrosion/irritation*:* non-irritating
- Serious eye damage/eye irritation: irritant, Irr. index: 32
- Respiratory or skin sensitisation: At guinea pigs did not observe sensitization characteristic in Magnusson-Kligman test. It was not observed an allergic effect on people. Combined sensitization index: 0
- Germ cell mutagenicity: The mutagenic effect of the glyphosate was examined in several test in vitro and in vivo, too. It is no mutagenic risk.
- Carcinogenicity: IARC: No component of this product present at levels greate than or equal to 0,1 % identified as probable, possible or confirmed human carcinogen by IARC
- Teratogenicity: No data available.
- Reproductive toxicity: No data available.
- Specific target organ toxicity - single exposure: No data available.
- Specific target organ toxicity - repeated exposure: No data available.
- Aspiration hazard: No data available.

11.2 Symptoms and direct effects:

Skin: It may cause irritation to the skin.
Ingestion: May be harmful if swallowed
Eye: May cause eye irritation.

11.3 Additional Information:

RTECS: No data available.

12 SECTION: ECOLOGICAL INFORMATION

12.1 **Toxicity:**

Fish:	Acute LC_{50}: (96 h): 21,6 mg/l (rainbow trout)
	NOEC: 10 mg/l (rainbow trout)
Daphnia:	EC_{50} (48 h): 113,9 mg/l (active ingredient)
Algae Growth:	E_rC_{50} (72 h): 7,078 mg/l (active ingredient)
Bee:	Acute LD_{50}: >100 µg/bee (active ingredient)

12.2 Persistence and degradability: Based on the results of tests of biodegradability this product is not readily biodegradable. The glypfosate not easily can be broken down biologically. The glyphosate in the environment and a sewage treating plant is decaying slowly. In Sewage treating plant deleterious effect was not observed until maximally 100 mg/l concentration. Its decomposition happens on a microbiological and aerobic manner mainly, but is decaying between anaerobic circumstances. Its decomposition half-life depends on the circumstances, but in aerobic soil and in water generally 3-30 days.

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: In the environment the glypfosate is not mobile, but it is inactivated quickly, because it binds on the clay particles. The glypfosate strongly attaches to soil

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: Toxic to aquatic life.

13 SECTION: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal method: open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations.
Empty container: Non-returnable containers which held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, whit the rinsate being incinerated.

13.2 13.1.1 Waste codes / waste designations according to EWC / AVV:

020108: agrochemical waste containing dangerous substances
200119: pesticides

14 SECTION: TRANSPORT INFORMATION

14.1 UN No.

ADR/RID/IMDG/IATA: 3082

14.2 UN proper hipping name

ADR/RID/IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQOID, N.O.S.. (N-(phosphonomethyl) glycine compound with 2-propylamine)

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 9.

14.4 Packaging group

ADR/RID/IMDG/IATA: III.

14.5 Environmental hazards

ADR/RID/IMDG/IATA: dangerous for the environment, marine pollutant

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated

15 SECTION: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
The use of this chemical entails the obligation to "Risk Assessment" by the employer under the provisions of the workers, these chemicals should not be subjected to health checks to evaluate the results of risks shows that the relation of the type and quantity of the chemical substance mode and contact with the exposure as well.
Only the "moderate risk" to the health and safety of workers and the measures provided for in that regulation is sufficient to reduce the risk.
Chemical Safety Assessment
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

15.2 Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

16 SECTION: OTHER INFORMATION

General information

Section 1-15. is based on the present state of our knowledge and only serves to showcase the product to the health, safety and environmental requirements. The safety data sheet refers to the product as supplied.

Sources of data used to compile the safety data sheet:

The test results of the mixture
Safety Data Sheet of the mixture components

Classification of the mixture was done according to the No. 1272/2008/EC regulation:

Based on the measured values of the toxicological and ecotoxicological properties of the mixture

Eye Irrit. 2.	H319
Aquatic Chronic 2	H411

Below are the H-phrases that can be found in the 3rd section of the safety data sheet, as well as the full texture of the hazard classes and categories.

Hazard statements

H 315	Causes skin irritation
H 318	Causes serious eye damage
H 319	Causes serious eye irritation
H 411	Toxic to aquatic life with long lasting effects
H 412	Harmful to aquatic life with long lasting effects

Hazard Class and Category

Eye Irrit. 2	Serious eye irritation Category 2
Eye Dam. 1	Serious eye damage Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic category 2
Skin irritant. 2	Skin irritation category 2

Legal notice

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Data sheet history

This Safety Data Sheet is compiled using the manufacturer's data sheet issued 12/09/2014

Review:

Chapter	Reason of the change	Date	Version
2,16	Change the candidate sections of the safety data sheet in accordance with the applicable legal regulations	2018-07-30	11.