

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

1.1. Product identifier

Product name NASA

Chemical name Glyphosate 36% SL

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

Identified uses Herbicide

1.3. Details of the supplier of the safety data sheet

**Supplier** Hockley Agro

Hockley House 3 Longstone Road Ashbrook Office Park

Manchester M22 5LB

TEL: +44 (0) 161 209 7400 FAX: +44 (0) 161 209 7401

sds@hockley.co.uk

Manufacturer AGRIA S.A.

Asenovgradsko shose, 4009 Plovdiv

032 273 500, the phone number is available only during office hours

+ 359 32 63 83 77 agria@agria.bg

1.4. Emergency telephone number

**Emergency telephone** +44 (0)800 246 1274 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

**Environmental hazards** Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



**Hazard statements** H411 Toxic to aquatic life with long lasting effects.

### **NASA**

**Precautionary statements** P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with national regulations.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

N-(PHOSPHONOMETHYL)GLYCINE, COMPOUND WITH 2-

42.0%

**PROPYLAMINE (1:1)** 

CAS number: 38641-94-0 EC number: 254-056-8

Classification Classification (67/548/EEC or 1999/45/EC)

Aquatic Chronic 2 - H411 N;R51/53.

GLYPHOSATE (ISO) 31.0%

CAS number: 1071-83-6 EC number: 213-997-4

Classification Classification (67/548/EEC or 1999/45/EC)

Eye Dam. 1 - H318 Xi;R41 N;R51/53

Aquatic Chronic 2 - H411

Betaines, C12-14 (even numbered)-alkyldimethyl

≤10.0%

CAS number: 66455-29-6

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

# 4.1. Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical attention if any

discomfort continues.

**Ingestion** IF SWALLOWED: Get medical attention. Do not induce vomiting.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Wash

 $contaminated \ clothing \ before \ reuse. \ Get \ medical \ attention \ if \ irritation \ persists \ after \ washing.$ 

**Eye contact** IF IN EYES: Rinse immediately with plenty of water. Remove contact lenses, if present and

easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if

irritation persists after washing.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

# 4.2. Most important symptoms and effects, both acute and delayed

Skin contact May cause skin irritation.

Eye contact May cause eye irritation.

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

## **NASA**

#### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

High volume water jet.

## 5.2. Special hazards arising from the substance or mixture

**Specific hazards** The product is not flammable.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Oxides of nitrogen. Oxides of phosphorus.

5.3. Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing. Wash contaminated clothing before reuse.

#### SECTION 6: Accidental release measures

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

For non-emergency personnel Keep unnecessary personnel away.

For emergency responders Eliminate all ignition sources (flame or spark). Provide local and general exhaust ventilation.

Use protective clothing and gloves, respiratory mask with an effective particulate filter,

chemical goggles for eye protection

### 6.2. Environmental precautions

**Environmental precautions** Dangerous for the environment. Avoid the spillage or runoff entering drains, sewers or

watercourses. Spillages or uncontrolled discharges into watercourses must be reported

immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Collect

spillage for reclamation or disposal in sealed containers via a licensed waste contractor.

Containers with collected spillage must be properly labelled with correct contents and hazard

symbol. Avoid contamination of ponds or watercourses with washing down water.

#### 6.4. Reference to other sections

**Reference to other sections** For waste disposal, see Section 13. For personal protection, see Section 8.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** For professional users only. Do not handle until all safety precautions have been read and

understood. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. For personal protection, see Section 8.

Advice on general occupational hygiene

When using do not eat, drink or smoke. Take off contaminated clothing and wash it before

reuse. Wash skin thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

### NASA

Storage precautions Store in accordance with national regulations. Store in tightly-closed, original container in a

dry, cool and well-ventilated place. Unsuitable container materials: Common metals.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2. Refer to the label and/or leaflet

### SECTION 8: Exposure controls/Personal protection

## 8.1. Control parameters

# Occupational exposure limits

None

# 8.2. Exposure controls

### Protective equipment











Appropriate engineering controls

Refer to CoSHH (Control of Substances Hazardous to Health) assessment. Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer to CoSHH Essentials.

Eye/face protection

Tight-fitting safety glasses. Personal protective equipment for eye and face protection should

comply with European Standard EN166.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. Gloves made from the following material may provide suitable chemical protection: For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Polyvinyl chloride (PVC). For work of long duration or where mechanical processes present a risk, use protective gloves made of: Nitrile rubber. Thickness: > 0.4 mm

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapour contact.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

Wear a suitable dust mask. Disposable filtering half mask respirators should comply with

European Standard EN149 or EN405.

Thermal hazards

No specific recommendations.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

**Appearance** Light yellow to amber liquid

Colour Yellow. to Amber.

Odour Almost odourless. Amine. Odour threshold No information available.

Ηq pH (diluted solution): 4.5 1% solution

Melting point Not relevant.

### **NASA**

Initial boiling point and range 100°C

Flash point Not determined. Not relevant.

Evaporation rateNot determined.Evaporation factorNot determined.

Upper/lower flammability or

Flammability (solid, gas)

explosive limits

Not relevant.

Not relevant.

Vapour pressure Not relevant.

Vapour density Not relevant.

**Relative density** 1.1600 ÷ 1.1750 g/cm3 @ 20°C

Solubility(ies) Completely soluble in water.

Partition coefficient Technically not feasible.

Auto-ignition temperature Not relevant.

**Decomposition Temperature** 100°C

**Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Corrosive to mild steel, galvanized steel and zinc

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

# 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Under normal conditions of storage and use, no hazardous reactions will occur. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight. Avoid contact with acids and alkalis.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong acids. Strong alkalis. May be corrosive to

metals.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition** Heating may generate the following products: Oxides of the following substances:

products Phosphorus. Nitrogen. Carbon.

## SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

### **NASA**

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC50 >4.96 mg/l, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

Skin sensitisation

Skin sensitisation Not classified. Rabbit

Germ cell mutagenicity

**Genotoxicity - in vivo**Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

**toxicity -** Based on available data the classification criteria are not met.

development

Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not relevant.

## SECTION 12: Ecological information

# 12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6.09 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC50, 48 hours: 28.62 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 34.3 mg/m³, Algae

Acute toxicity - terrestrial LD50 (oral), : >2000 mg/kg, Anas Platyrhynchos (Mallard duck)

LD50 (oral), LD50 (contact), : >100 µg / bee, Apis Mellifera (Honeybee)

LD50 (contact), : >5000 mg/kg, Eisenia Fetida (Earthworm)

## 12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient Technically not feasible.

### **NASA**

#### 12.4. Mobility in soil

Mobility The product contains substances which are bound to particulate matter and are retained in

soil.

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

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects None known.

#### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

General information Dangerous for the environment. External recovery, treatment, recycling and disposal of waste

should comply with all applicable local and/or national regulations. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Disposal methods

Place waste in labelled, sealed containers. Dispose of waste product or used containers in

accordance with local regulations Avoid the spillage or runoff entering drains, sewers or

watercourses. Do not reuse empty containers.

Waste class 07 04 01\* aqueous washing liquid and mother liquors 15 01 10\* packaging containing

residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

General Environmentally Hazardous Substance Mark NOT required for single packagings and

combination packagings containing inner packagings  $\leq$  5L for liquids, or  $\leq$  5kg for solids.

(ADR special provision 375, IMDG code 2.10.2.7, IATA special provision A197)

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of the Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

### 14.1. UN number

UN No. (ADR/RID) 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

UN No. (ADN) 3082

### 14.2. UN proper shipping name

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ADR/RID)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## **NASA**

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

## Transport labels



# 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group

ADN packing group

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



# 14.6. Special precautions for user

**EmS** F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (-)

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

# SECTION 15: Regulatory information

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

#### **NASA**

### National regulations

#### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348) Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

#### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009 Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677) EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986 Dangerous Substances and Explosive Atmospheres Regulations 2002

#### Waste Treatment

Environmental Protection Act 1990, Part II Environmental Protection (Duty of Care)
Regulations 1991 The Waste Management Licensing Regulations 1994 (as amended)
Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991 Anti-Pollution Works Regulations 1999

### **EU** legislation

COMMISSION REGULATION (EU) No 547/2011 of 8 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards labelling requirements for plant protection products

EC Regulation 1107/2009 of the European Parliament and of the Council of 21 October 2009

concerning the placing of plant protection products (as amended)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 21/02/2019

SDS number 20832

Hazard statements in full H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements. This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.