

RATTLER Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Product identifier

CA Code (Nufarm) : 2410 Product code : M245A Oracle Recipe Code (Nufarm) : 600000071

: 100004497; 100006950 Item codes

Product form Mixture Trade name RATTLER Type (Nufarm) : Country Specific Country (Nufarm) : United Kingdom

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

Relevant identified uses

: Professional use Main use category Use of the substance/mixture : Herbicide

Uses advised against 1.2.2.

No additional information available

Details of the supplier of the safety data sheet

Supplier

Nufarm UK Limited Wyke Lane Wyke BD12 9EJ Bradford - UK

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infouk@uk.nufarm.com

Emergency telephone number

: +44 (0)1274 696603 **Emergency number**

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category H318

Hazardous to the aquatic environment —

Chronic Hazard, Category 2

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements 2.2.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05

Signal word (CLP) : Danger

Hazardous ingredients : GLYPHOSATE MIPA/K 540G/L H318 - Causes serious eye damage. Hazard statements (CLP)

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, face shield, eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor, a POISON CENTER.

P501 - Dispose of contents and container to hazardous or special waste collection point, in

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accordance with local, regional, national and/or international regulation.

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for

use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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]
Glyphosate isopropylamine salt	(CAS-No.) 38641-94-0 (EC-No.) 254-056-8	30.8	Aquatic Chronic 2, H411
GLYPHOSATE K SALT	(CAS-No.) 39600-42-5	23	Aquatic Chronic 2, H411
BLEND OF ALKYLPOLYGLUCOSIDE AND POLYETOXYLATED N-TALLOW ALKYLTRIMETHYLENEDI-AMINE	(CAS-No.) 61790-85-0	10-18	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
PROPYLENE GLYCOL	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-no) 01-2119456809-23	<5	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Do not induce vomiting.

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

Symptoms/effects after inhalation : May cause shortness of breath, tightness of the chest, a sore throat and cough.

Symptoms/effects after skin contact : Causes mild skin irritation. Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Abdominal pain, nausea. May cause irritation to the

digestive tract.

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

Treat symptomatically. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Chlorine. Nitrogen oxides.

fire Hydrogen chloride.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Safety glasses. Protective clothing. Gloves.

Hand protection:

Nitrile rubber gloves. PVC gloves

Eye protection:

Safety glasses. Safety glasses with side shields. Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment







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Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : light brown.
Odour : Natural wood.
Odour threshold : No data available

pH : 5.4

Relative evaporation rate (butylacetate=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : 113 - 114 °C

Flash point : > 100 °C

Auto-ignition temperature : > 400 °C

Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 1.3

Solubility : Water: completely miscible

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 396.1 mPa.s 20°C
Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

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

RATTLER	
LD50 oral rat	> 2000 ml/kg glyphosate (ISO); N-(phosphonomethyl)glycine
LD50 dermal rat	> 2000 mg/kg glyphosate (ISO); N-(phosphonomethyl)glycine
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5 mg/l/4h glyphosate (ISO); N-(phosphonomethyl)glycine

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified

pH: 5.4

Serious eye damage/irritation : Causes serious eye damage.

pH: 5.4

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

Ecology - general : Toxic to aquatic life with long lasting effects.

: Not classified Acute aquatic toxicity

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

RATTLER	
LC50 96h fish	38 mg/l glyphosate (ISO); N-(phosphonomethyl)glycine
EC50 48h crustacea	40 mg/l glyphosate (ISO); N-(phosphonomethyl)glycine
ErC50 (algae)	0.64 mg/l glyphosate (ISO), N-(phosphonomethyl)glycine; 168h

Additional Ecotox information

Toxicity to birds

LD50 Toxicity to birds >2000mg/Kg (Glyphosate)

LD50 Toxicity to bees

LD50 (oral) Apis mellifera (Honey bee) 100 µg/Species (Glyphosate)

LD50 (contact) Apis mellifera (Honey bee) 100 µg/Species (Glyphosate)

LD50 Toxicity to Earthworms

LD50 Toxicity to Eisenia fetida (earthworms) 480mg/Kg (Glyphosate)

PROPYLENE GLYCOL (57-55-6)

Additional Ecotox information

BLEND OF ALKYLPOLYGLUCOSIDE AND POLYETOXYLATED N-TALLOW ALKYLTRIMETHYLENEDI-AMINE (61790-85-0)

Additional Ecotox information

Glyphosate isopropylamine salt (38641-94-0)		
EC50 48h crustacea	980 mg/l	
EC50 72h algae	72.9 mg/l	

Additional Ecotox information

Birds LD50: > 2.000 mg/kg Test substance: (Glyphosate)

Apis mellifera (Honey bee) LD50: > 100 μg/bee, contact. Test substance: (Glyphosate)

Apis mellifera (Honey bee) LD50: > 100 μg/bee, oral. Test substance: (Glyphosate)

GLYPHOSATE K SALT (39600-42-5)

Additional Ecotox information

Persistence and degradability

RATTLER	
Persistence and degradability	Not readily biodegradable.
Glyphosate isopropylamine salt (38641-94-0)	
Persistence and degradability	Not readily biodegradable, according to appropriate OECD test due to properties of several components.
Biodegradation	DT50 24h (water); 1.041h (soil)

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12.3. Bioaccumulative potential

12.0. Blododamatative potential		
RATTLER		
Bioaccumulative potential No bioaccumulation.		
Glyphosate isopropylamine salt (38641-94-0)		
Log Pow	< -3.2 glyphosate (ISO); N-(phosphonomethyl)glycine	

12.4. Mobility in soil

RATTLER	
Surface tension	36.6 mN/m 20°C
Log Koc	884 - 60000 glyphosate (ISO); N-(phosphonomethyl)glycine

12.5. Results of PBT and vPvB assessment

RATTLER

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : a hazardous or special waste collection point.

European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate. Tallow propylene diamine ethoxylate.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate. Tallow propylene diamine ethoxylate.)	Environmentally hazardous substance, liquid, n.o.s. (Glyphosate. Tallow propylene diamine ethoxylate.)
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate. Tallow propylene diamine ethoxylate.), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate. Tallow propylene diamine ethoxylate.), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Glyphosate. Tallow propylene diamine ethoxylate.), 9, III
14.3. Transport hazard class(es)		
9	9	9
	1 1 2 2 2 3 3 3 3 3 3 3 3 3 3	
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

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Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1, TP29

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13

Hazard identification number (Kemler No.)

Orange plates

: 90

90 3082

Tunnel restriction code (ADR) : EAC code : •3Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 Special packing provisions (IMDG) : PP1 : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP2, TP29 : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

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

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

NUFARM SDS TEMPLATE

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

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