

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Zulu

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 1
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Zulu

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd

Unit 15, Thatcham Buisness Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK: 01635 860555

Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Inhalation Category 4 - (H332)

(Dusts/Mists)

Serious eye damage/eye irritation
Reproductive Toxicity
Acute aquatic toxicity
Hazardous to the Aquatic

Category 2 - (H319)
Category 2 - (H361d)
Category 1 - (H400)
Category 1 - (H410)

Environment - Chronic Hazard

2.2. Label elements

ADAMA Page 1/9

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

Hazard pictograms



Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H361d - Suspected of damaging the unborn child H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product

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

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

EU Specific Hazard Statements EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

EUH208 - Contains Isopyrazam. May produce an allergic reaction

Additional phrases for PPP SP1 - 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).

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number	
Isopyrazam 11-15		881685-58-1	632-619-2	-	Skin Sens. 1B (H317) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=10	-	
Reaction mass of N,N-Dimethyloctan-1-a mide and N,N-Dimethyldecan-1- amide	40-45	N/A	909-125-3	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)		01-2119974115 -37-0001	
Benzenesulfonic acid, C10-13-(linear)alkyl derivs., calcium salt	1-2	N/A	932-231-6	ı	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		01-2119560592 -37-XXXX	
2-Ethylhexan-1-ol	1-2	104-76-7	203-234-3	-	Acute Tox. 4 (H332) Skin Irrit. 2 (H315)		01-2119487289 -20	

				Eye Irrit. 2 (H319) STOT SE 3 (H335)	
Poly(oxy-1,2-ethanediy I), .alpha[tris(1-phenylet hyl)phenyl]omegahy droxy-	99734-09-5	-	-	Aquatic Chronic 3 (H412)	-

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Ingestion Rinse mouth. Drink plenty of water. Call a physician immediately.

Self-protection of the first aiderUse personal protective equipment as required.

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

Symptoms None known

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

Note to physiciansTreat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use only with adequate ventilation.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-Ethylhexan-1-ol					TWA: 10 ppm
104-76-7					TWA: 54 mg/m ³
					Ceiling / Peak: 10 ppm
					Ceiling / Peak: 54
					mg/m³
					TWA: 20 ppm
					TWA: 110 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2-Ethylhexan-1-ol	Skin	STEL: 20 ppm	STEL: 320 mg/m ³		
104-76-7	STEL 100 ppm	STEL: 110 mg/m ³	TWA: 160 mg/m ³		
	STEL 540 mg/m ³	TWA: 20 ppm			1
	TWA: 50 ppm	TWA: 110 mg/m ³			1
	TWA: 270 mg/m ³	•			

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand Protection Gloves made of plastic or rubber.

Body Protection Suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property Values Method Remarks
Appearance

Physical state : Liquid

Color: brown to orangeOdor: Not determinedOdor threshold: No data available

pH : 4.6-5.6 CIPAC MT 31.2 solution (1 %)

 $\begin{tabular}{lll} \textbf{Melting point/freezing point} & `C & : & No data available \\ \end{tabular}$

Boiling point/boiling range °C : No data available

Flash point °C : 86-96 EEC A.9

Evaporation rate : Not Applicable
Flammability (solid, gas) : Not Applicable
Upper/lower flammability or explosive limits : No data available

 Vapor pressure kPa
 : No data available

 Vapor density
 : No data available

Relative density : 0.904-1.004 OECD 114

Solubility(ies) mg/l : No data available

(n-octanol/water) Log Pow

Autoignition temperature °C : 220-230 EEC A.15

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 5.87

Explosive properties : Not an explosive Oxidizing properties : No data available

9.2. Other information

Partition Coefficient

Bulk density g/ml : No data available

Surface tension mN/m : Not Applicable

Section 10: STABILITY AND REACTIVITY

EEC A.5

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

See Section 12 for more

information

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

,		<u>Values</u>	Species	<u>Method</u>	Remarks
Oral LD50 mg/kg	:	1750	Rat	OECD 425	
Dermal LD50 mg/kg	:	>5000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	:	>2.71	Rat	OECD 403	
Skin corrosion/irritation	:	Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:	Irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	:	Not a skin sensitizer	Guinea pig	OECD 406	

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Isopyrazam : Not classified

Carcinogenicity

Chemical Name

Isopyrazam : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Isopyrazam : H361d - Suspected of damaging the unborn child

STOT - single exposure

Chemical Name

Isopyrazam : No data available

STOT - repeated exposure

Chemical Name

Isopyrazam : No data available

Aspiration hazard Chemical Name

Isopyrazam : No data available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

ADAMA Page 6/9

Acute toxicity		Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l	:	0.32	Oncorhynchus mykiss		
Crustacea 48-hour EC50 mg/l	:	0.35	Daphnia magna		
Algae 72-hour EC50 mg/l	:	14	P. subcapitata		
Other plants EC50 mg/l	:				No data available
Ferrestrial Toxicity Birds Oral LD50 mg/kg Chemical Name					
sopyrazam	:	>2000	C. virginianus	Acute toxicity	
Bees Oral LD50 µg/bee Chemical Name					
sopyrazam	:				No data available
12.2. Persistence and degradabilit	<u>y</u> _				
Abiotic Degradation Water DT50 days Chemical Name		<u>Values</u>		<u>Method</u>	<u>Remarks</u>
sopyrazam	:	21d			Not persistent in water
Soil DT50 days Chemical Name	_	70d		SFO	Not possistant in sail
sopyrazam	:	70 u		3FU	Not persistent in soil
Biodegradation Chemical Name sopyrazam	:	Not readily biod	degradable		
12.3. Bioaccumulative potential					
Partition Coefficient (n-octanol/water) Log Pow		<u>Values</u>		Method	<u>Remarks</u>
Chemical Name sopyrazam	:	4.1		OECD 107	pH 7.3 ; 25 ° C
Bioconcentration factor (BCF)					
Chemical Name		441			Based on whole fish

12.4. Mobility in soil

Adsorption/Desorption **Values Method** Remarks

Chemical Name

Isopyrazam : 2416 Koc

<u>12.5. Results of PBT and vPvB assessment</u>
The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused Disposal should be in accordance with applicable regional, national and local laws and regulations. products

Page 7/9 **ADAMA**

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No * 3082

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

14.3 Hazard Class914.4 Packing GroupIII14.5 Marine pollutantYes

14.6 Special precautions for user

RID/ADR

14.1 UN/ID No * 3082

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

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special precautions for user

14.6 Special precautions for user
14.7 Tunnel restriction code

ICAO/IATA

14.1 UN/ID No * 3082

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

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

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

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H361d - Suspected of damaging the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EC Number - EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

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

Revision Note

Changes made to the last version are labeled with this sign ***.

Disclaimer

The information provided in this Material 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