

Section 6 of the Health and Safety at Work Act Additional Product Safety Information

This Safety Data Sheet does not form part of the label approved under the Control of Pesticides Act 1986. Following the instructions on the pesticide Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

Identification of the Substance or Preparation

Tradename: Paradise

Company Identification

Company: Pan Agriculture Ltd

8 Cromwell Mews, Station Road, St Ives Cambs, PE28 5HJ

Tel: (01480) 467790 *Fax:* (01480) 467041

Emergency Phone: 0870 600 6266

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Hazard Symbols	Risk Phrases	Concentration (% w/w)
flazasulfuron	10404 0-78-0	N	50/53	25

3. HAZARDS IDENTIFICATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES

Inhalation: Remove the victim into fresh air.

Respiratory problems: Consult a doctor/medical service

Skin contact: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists

Eye contact: Rinse with water. Take victim to an ophthalmologist if irritation persists

After ingestion: Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, Polyvalent foam, ABC powder, Carbon dioxide

Unsuitable extinguishing media: Solid water jet ineffective as extinguishing medium

Special exposure hazards: On heating/burning: release of toxic and corrosive gases/vapours e.g.: nitrous vapours, hydrofluoric acid, sulphur oxides, carbon monoxide - carbon dioxide

Instructions: Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use firefighting water moderately and contain it.

Special protective equipment for fire-fighters: Heat/fire exposure: compressed air/oxygen apparatus. Dust cloud production: compressed air/oxygen apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: See sections 8 and 13

Environmental precautions: Prevent soil and water pollution. Prevent spreading in sewers. Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray

Methods for cleaning up: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling

7. HANDLING AND STORAGE

Handling: Observe normal hygiene standards. Avoid raising dust. Do not discharge the waste into the drain. Clean contaminated clothing

Storage: Keep container tightly closed. Keep only in the original container. Meet the legal requirements.

Keep away from: heat sources

Storage temperature: N.D. °C

Quantity limits: N.D. kg

Storage life: N.D. days

Materials for packaging :

suitable : no data available

to avoid : no data available

Specific use(s): See information supplied by the manufacturer for the identified use(s)

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limit values:

Occupational exposure:

FLAZASULFURON 25% WG

TLV-TWA : not listed

TLV-STEL : not listed

TLV-Ceiling : not listed

OES-LTEL : not listed

OES-STEL : not listed

MEL-LTEL : not listed

MEL-STEL : not listed

MAK : not listed

TRGS900 : not listed

MAC-TGG 8 h : not listed

MAC-TGG 15 min. : not listed

MAC-Ceiling : not listed

VME-8 h : not listed

VLE-15 min. : not listed

GWBB-8 h : not listed

GWK-15 min. : not listed

Momentary value : not listed

EC : not listed

EC-STEL : not listed

Sampling methods:

NO DATA AVAILABLE

Exposure controls:

Occupational exposure controls: Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection: Dust production: dust mask with filter type P1

b) Hand protection: Gloves. Suitable materials: Rubber, PVC, Plastics. Breakthrough time: N.D.

c) Eye protection: Safety glasses. In case of dust production: protective goggles

d) Skin protection: Protective clothing. Suitable materials: Rubber, PVC, Plastics

Environmental exposure controls: see sections 6 and 13

9. PHYSICAL AND CHEMICAL PROPERTIES

General information:

Appearance (at 20°C) : Grains

Odour : Cinnamon

Colour : Brown

pH value (at 1%) : 5.06

Boiling point/boiling range : N.D. °C

Flash point/flammability : N.D. °C

Explosion limits (explosive properties) : N.D. vol%

Oxidising properties : N.D.

Vapour pressure (at 20°C) : N.D. hPa

Vapour pressure (at 50°C) : N.D. hPa

Relative density (at 20°C) : 0.84

Water solubility : N.D. g/100 ml

Soluble in : Acetone, ethylacetate, dichloromethane

Relative vapour density : N.D.

Viscosity (at °C) : N.D. Pa.s

Partition coefficient n-octanol/water : N.D.

Evaporation rate

ratio to butyl acetate : N.D.

ratio to ether : N.D.

Melting point/melting range : N.D. °C

Auto-ignition temperature : N.D. °C

Saturation concentration : N.D. g/m³

Specific conductivity : N.D. pS/m

10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under normal conditions

Materials to avoid: Keep away from: heat sources

Hazardous decomposition products: On heating/burning: release of toxic and corrosive gases/vapours e.g.: nitrous vapours, hydrofluoric acid, sulphur oxides, carbon monoxide - carbon dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 oral rat : 4800 mg/kg

LD50 dermal rat : > 2000 mg/kg

LD50 dermal rabbit : N.D. mg/kg

LC50 inhalation rat : > 6.17 mg/l/4 h

LC50 inhalation rat : N.D. ppm/4 h

Chronic toxicity:

EC carc. cat. : not listed

EC muta. cat. : not listed

EC repr. cat. : not listed

Carcinogenicity (TLV) : not listed

Carcinogenicity (MAC) : not listed

Carcinogenicity (VME) : not listed

Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed

Mutagenicity (MAK) : not listed

Teratogenicity (MAK) : not listed

IARC classification : not listed

Routes of exposure: ingestion, inhalation, eyes and skin

Acute effects/symptoms: Unlikely to cause harmful effects

Chronic effects:

Not listed in carcinogenicity class (IARC,EC,TLV,MAK)

Not listed in mutagenicity class (EC,MAK)

Not classified as toxic to reproduction (EC)

Unlikely to cause harmful effects

12 ECOLOGICAL INFORMATION

Ecotoxicity:

LC50 (96 h) : > 100 mg/l (SALMO GAIRDNERI/ NCORHYNCHUS MYKISS)

EC50 (48 h) : > 100 mg/l (DAPHNIA MAGNA)

EC50 (72 h) : 0.025 mg/l (SELENASTRUM CAPRICORNUTUM)

Effect on waste water purification: no data available

Mobility:

Volatile organic compounds (VOC): 0%

No data available

For other physicochemical properties see heading 9

Persistence and degradability:

biodegradation BOD5 : N.D. % ThOD

water : - No data available

soil : T ½: N.D. days

12.4 Bioaccumulative potential:

log Pow : N.D.

BCF : N.D.

Results of PBT assessment:

Not applicable, based on available data.

Other adverse effects:

WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

Effect on the ozone layer: Not dangerous for the ozone layer (1999/45/EC)

Greenhouse effect: no data available

13. DISPOSAL CONSIDERATIONS

Provisions relating to waste: Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 07 04 13* (solid wastes containing dangerous substances) Hazardous waste (91/689/EEC)

Disposal methods: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Do not discharge into surface water.

Packaging/Container: Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. TRANSPORT INFORMATION

Classification of the substance in compliance with UN Recommendations:

UN number : 3077

CLASS : 9

SUB RISKS : -

PACKING GROUP : III

ADR (transport by road):

CLASS : 9

PACKING GROUP : III

CLASSIFICATION CODE : M7

DANGER LABEL TANKS : 9

DANGER LABEL PACKAGES : 9

PROPER SHIPPING NAME :

Environmentally hazardous substance, solid, n.o.s. (flazasulfuron)

RID (transport by rail):

CLASS : 9

PACKING GROUP : III

CLASSIFICATION CODE : M7

DANGER LABEL TANKS : 9

DANGER LABEL PACKAGES : 9

PROPER SHIPPING NAME :

Environmentally hazardous substance, solid, n.o.s. (flazasulfuron)

ADNR (transport by inland waterways):

CLASS : 9

PACKING GROUP : III

CLASSIFICATION CODE : M7

DANGER LABEL TANKS : 9

DANGER LABEL PACKAGES : 9

IMDG (maritime transport):

CLASS : 9

SUB RISKS : -

PACKING GROUP : III

MFAG : -

EMS : F-A, S-F

MARINE POLLUTANT : P

ICAO (air transport):

CLASS : 9

SUB RISKS : -

PACKING GROUP : III

PACKING INSTRUCTIONS PASSENGER AIRCRAFT :

911/Y911

PACKING INSTRUCTIONS CARGO AIRCRAFT : 911

Special precautions : none

Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with: each package shall display a diamond-shaped figure with the following inscription: 'UN 3077' or, in the case of different goods with different identification numbers within a single package: the letters 'LQ'

15. REGULATORY INFORMATION

EU legislation: Classification according to directives 67/548/EEC, 1999/45/EC and 2006/8/EC

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S35 : This material and its container must be disposed of in a safe way

S57 : Use appropriate containment to avoid environmental contamination

15.2 National provisions:

Germany:

WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

Dangerous for the environment

16. OTHER INFORMATION

The information provided on this SDS 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 as 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 material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE

N.D. = NOT DETERMINED

(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA

WEL : Workplace Exposure Limits - United Kingdom

TRGS 900 : Technische Regel für Gefahrstoffe 900
(Arbeitsplatzgrenzwerte) - Germany

MAK : Maximale Arbeitsplatzkonzentrationen - Germany

MAC : Maximale aanvaarde concentratie - The Netherlands

VME : Valeurs limites de Moyenne d'Exposition - France

VLE : Valeurs limites d'Exposition à court terme - France

GWBB : Grenswaarde beroepsmatige blootstelling - Belgium

GWK : Grenswaarde kortstondige blootstelling - Belgium

EC : Indicative occupational exposure limit values - directive
2000/39/EC

I : Inhalable fraction = **T**: Total dust = **E**: Einatembarer
Aerosolanteil

R : Respirable fraction = **A**: Alveolengängiger
Aerosolanteil/Alveolar dust

C : Ceiling limit

a: aerosol **r**: rook/Rauch (fume)

d: damp (vapour) **st**: stof/Staub (dust)

du: dust **ve**: vezel (fibre)

fa: Faser (fibre) **va**: vapour

fi: fibre **om**: oil mist

fu: fume **on**: olienevel/Ölnebel (oil mist)

p: poussière (dust) **part**: particles

Chronic toxicity:

K : List of the carcinogenic substances and processes - The
Netherlands

Full text of any R phrases referred to under headings 2 and 3:

R50/53 : Very toxic to aquatic organisms, may cause long-term
adverse effects in the aquatic
environment