

# SAFETY DATA SHEET

Based on Regulation (EC) No 1907/2006 (REACH) Article 31 and Annex II

## CHIKARA

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Identification of the substance or preparation:

Product name : CHIKARA  
Synonyms : none

CAS No. : N.A.  
EC index No. : N.A.  
EINECS No. : N.A.  
RTECS No. : N.A.

NFPA code : N.D.  
Molecular weight : N.A.  
Formula : N.A.

#### 1.2 Use of the substance/preparation:

- Herbicide

#### 1.3 Company/undertaking identification:

ISK Biosciences Europe S.A.  
Avenue Louise 480, Bte 12  
B-1050 Brussel  
Tel: +32 2 627 86 11  
Fax: +32 2 627 86 00

#### 1.4 Emergency telephone:

+32 14 58 45 45 (24h/24h)  
Information centre on dangerous goods (BIG)  
Technische Schoolstraat 43A, B-2440 Geel, Belgium

### 2. Hazards identification

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

### 3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
FLAZASULFURON	104040-78-0	25	50/53 (1)	N

(1) For R-phrases in full: see heading 16

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

### 4. First aid measures

#### 4.1 After inhalation:

- Remove the victim into fresh air  
- Respiratory problems: consult a doctor/medical service

#### 4.2 Skin contact:

- Rinse with water  
- Soap may be used  
- Take victim to a doctor if irritation persists

#### 4.3 Eye contact:

- Rinse with water  
- Take victim to an ophthalmologist if irritation persists

#### 4.4 After ingestion:

- Rinse mouth with water  
- Do not induce vomiting  
- Consult a doctor/medical service if you feel unwell

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Technische Schoolstraat 43 A, B-2440 Geel  
☎ +32 14 58 45 47 http://www.big.be e-mail address: info@big.be

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Reason for revision :

# CHIKARA

## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media:

- Water spray
- Polyvalent foam
- ABC powder
- Carbon dioxide

### 5.2 Unsuitable extinguishing media:

- Solid water jet ineffective as extinguishing medium

### 5.3 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

### 5.4 Instructions:

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

### 5.5 Special protective equipment for fire-fighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- Dust cloud production: compressed air/oxygen apparatus

## 6. Accidental release measures

### 6.1 Personal precautions:

See heading 8.2/13

### 6.2 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

### 6.3 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

### 7.1 Handling:

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

### 7.2 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	

### 7.3 Specific use(s):

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

## 8. Exposure controls/Personal protection

### 8.1 Exposure limit values:

#### 8.1.1 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

#### 8.1.2 Sampling methods:

- NO DATA AVAILABLE

### 8.2 Exposure controls:

#### 8.2.1 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

#### 8.2.2 Environmental exposure controls: see headings 6.2, 6.3 and 13

# CHIKARA

## 9. Physical and chemical properties

### 9.1 General information:

Appearance (at 20°C) : Grains  
Odour : Cinnamon  
Colour : Brown

### 9.2 Important health, safety and environmental information:

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.

### 9.3 Other information:

Melting point/melting range : N.D. °C  
Auto-ignition temperature : N.D. °C  
Saturation concentration : N.D. g/m<sup>3</sup>  
Specific conductivity : N.D. pS/m

## 10. Stability and reactivity

### 10.1 Conditions to avoid:

- Stable under normal conditions

### 10.2 Materials to avoid:

- Keep away from: heat sources

### 10.3 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

### 11.1 Acute toxicity:

FLAZASULFURON 25% WG

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

### 11.2 Chronic toxicity:

FLAZASULFURON 25% WG

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

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

### 11.4 Acute effects/symptoms:

- Unlikely to cause harmful effects

### 11.5 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

### 12.1 Ecotoxicity:

#### FLAZASULFURON 25% WG:

- LC50 (96 h) : > 100 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS 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

### 12.2 Mobility:

- Volatile organic compounds (VOC): 0%
- No data available

For other physicochemical properties see heading 9

### 12.3 Persistence and degradability:

- biodegradation BOD<sub>5</sub> : N.D. % ThOD
- water : - No data available
- soil : T ½: N.D. days

### 12.4 Bioaccumulative potential:

- log P<sub>ow</sub> : N.D.
- BCF : N.D.

### 12.5 Results of PBT assessment:

- Not applicable, based on available data.

### 12.6 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

### 13.1 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)

### 13.2 Disposal methods:

- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber
- Do not discharge into surface water

### 13.3 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

### 14.1 Classification of the substance in compliance with UN Recommendations

UN number : 3077  
 CLASS : 9  
 SUB RISKS : -  
 PACKING GROUP : III

### 14.2 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)

### 14.3 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)

### 14.4 ADNR (transport by inland waterways)

CLASS : 9  
 PACKING GROUP : III  
 CLASSIFICATION CODE : M7  
 DANGER LABEL TANKS : 9  
 DANGER LABEL PACKAGES : 9

### 14.5 IMDG (maritime transport)

CLASS : 9  
 SUB RISKS : -  
 PACKING GROUP : III  
 MFAG : -  
 EMS : F-A, S-F  
 MARINE POLLUTANT : P

### 14.6 ICAO (air transport)

CLASS : 9  
 SUB RISKS : -  
 PACKING GROUP : III  
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 911/Y911  
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 911

### 14.7 Special precautions

: none

### 14.8 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

### 15.1 EU legislation:

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



Dangerous for the  
environment

- 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)

## 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

<b>a:</b>	aerosol	<b>r:</b>	rook/Rauch	(fume)
<b>d:</b>	damp (vapour)	<b>st:</b>	stof/Staub	(dust)
<b>du:</b>	dust	<b>ve:</b>	vezel	(fibre)
<b>fa:</b>	Faser (fibre)	<b>va:</b>	vapour	
<b>fi:</b>	fibre	<b>om:</b>	oil mist	
<b>fu:</b>	fume	<b>on:</b>	olienevel/Ölnebel	(oil mist)
<b>p:</b>	poussière (dust)	<b>part:</b>	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