SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Chikara

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

1.1 Product identifier:

Product name : Chikara

Synonyms : SL-160 25% WG; FLAZASULFURON 25% water dispersible granule

Registration number REACH : Not applicable
Product type REACH : Mixture (Organic)

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

1.2.1Relevantidentifieduses

Herbicide

1.2.2Usesadvisedagainst

No uses advised against

1.3 Details of the supplier of the safety data sheet:

SupplieroftheSDS

ISK Biosciences Europe N.V. Pegasus Park, De Kleetlaan 12B - box 9 B-1831 Diegem, Belgium Tel: +32 2 627 86 11 Fax: +32 2 627 86 00

1.4 Emergency telephone number:

24h/24h:

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Not determined

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

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

Labels



for the environmen

R-phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

This material and its container must be disposed of in a safe way
Use appropriate container to avoid environmental contamination

2.3 Other hazards:

DSD/DPD

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134-15857-209-

Product number: 25069

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No. 1907/2006

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (RFACH Registration No.)	CAS No EC No	Conc.	laccording to DSD/	Classification according to CLP	Note	Remark
flazasulfuron (-)	104040-78-0	26.6 %	· ·	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)	Component multi- constituent
methylnaphthalenesulfonic acid/formaldehyde, copolymer, sodium salt(-)		4.9%<=c <5.6%	Xi; R41	Eye Dam. 1; H318	(1)	Component multi- constituent
sodium diisopropylnaphthalenesulphonate (-)	1322-93-6 215-343-3	< 5 %		Acute Tox. 4; H332 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335	(1)	Component multi- constituent

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

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

After 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.

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

4.2.1 Acute symptoms

After inhalation:

Unlikely to cause harmful effects.

After skin contact:

Not irritating.

After eye contact:

Not irritating.

After ingestion:

Unlikely to cause harmful effects.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

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

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Prevent dust cloud formation. No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Suitableprotectiveclothing

See heading 8.2

6.2 Environmental precautions:

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. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and 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.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Do not discharge the waste into the drain.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Meet the legal requirements. Keep only in the original container.

7.2.2 Keep away from:

No data available.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer .

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a)Occupationalexposurelimitvalues

If limit values are applicable and available these will be listed below.

b)Nationalbiologicallimitvalues

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

8.1.5 Control banding

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If applicable and available it will be listed below.

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8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a)Respiratory protection:

Dust production: dust mask with filter type P1.

b)Handprotection:

Gloves.

-materials for protective clothing (good resistance)

Rubber, PVC, plastics.

c)Eyeprotection:

Safety glasses. In case of dust production: protective goggles.

d)Skinprotection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Grains
Odour	Cinnamon odour
Odour threshold	No data available
Colour	Brown
Particle size	No data available
Explosion limits	No data available
Flammability	No data available on direct fire hazard
Log Kow	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	ether ; No data available
Vapour pressure	No data available
Relative vapour density	No data available
Solubility	No data available
Relative density	0.84
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	5.1;1%

Physical hazards

No physical hazard class

9.2 Other information:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:

No data available on indirect fire hazard. Substance has acid reaction.

10.2 Chemical stability:

Stable under normal conditions.

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10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Avoid raising dust. Keep away from naked flames/heat.

10.5 Incompatible materials:

No data available.

10.6 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

FLAZASULFURON25%WG

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50		4800 mg/kg		Rat		Experimental value
Dermal	LD50		>2000 mg/kg		Rat		Experimental value
Inhalation	LC50		>6.17 mg/l	4 h	Rat		Experimental value

flazasulfuron

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50		>5000 mg/kg		Rat	Experimental value
Dermal	LD50		> 2000 mg/kg		Rat	Experimental value
Inhalation	LC50		>5.99 mg/l	4 h	Rat	Experimental value

Conclusion

Low acute toxicity by the oral route Low acute toxicity by the dermal route Low acute toxicity by the inhalation route

Corrosion/irritation

FLAZASULFURON25%WG

No data available

Conclusion

Not classified as irritating to the skin Not classified as irritating to the eyes

Respiratory or skin sensitisation

FLAZASULFURON25%WG

No data available

Conclusion

No data available

Specific target organ toxicity

FLAZASULFURON25%WG

No data available

Conclusion

No data available

Mutagenicity (in vitro)

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FLAZASULFURON25%WG

No data available

Mutagenicity (in vivo)

FLAZASULFURON25%WG

No data available

Carcinogenicity

FLAZASULFURON25%WG

No data available

Reproductive toxicity

FLAZASULFURON25%WG

No data available

ConclusionCMR

Not classified for reprotoxic or developmental toxicity Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Toxicity other effects

FLAZASULFURON25%WG

No data available

Conclusion

No data available

11.1.2 Other information

FLAZASULFURON25%WG

No data available

SECTION 12: Ecological information

12.1 Toxicity:

FLAZASULFURON25%WG

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 100 mg/l	96 h	Oncorhynchus mykiss			Experimental value
Acute toxicity fishes	LC50		>400 mg/l	96 h	Lepomis m acrochirus			Experimental value
Acute toxicity invertebrates	EC50		> 100 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EC50		0.025 mg/l	72 h	Selenastrum capricornutum			Experimental value

<u>flazasulfuron</u>

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		22 mg/l	96 h	Oncorhynchus mykiss			Experimental value
Acute toxicity fishes	LC50		>98 mg/l	96 h	Lepomis m acrochirus			Experimental value
Acute toxicity invertebrates	EC50		>106 mg/l	48 h	Daphnia magna			Experimental value
Toxicity algae and other aquatic plants	EC50		0.045 mg/l	72 h	Selenastrum capricornutum			Experimental value

$\underline{\textbf{Conclusion}}$

Slightly harmful to fishes

Slightly harmful to invertebrates (Daphnia)

Highly toxic to algae

12.2 Persistence and degradability:

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Conclusion

Contains non readily biodegradable component(s)

No (test)data on the mixture available

12.3 Bioaccumulative potential:

FLAZASULFURON25%WG

Log Kow

Method	Value	Temperature	Value determination
	No data available		

flazasulfuron

Log Kow

Method	Value	Temperature	Value determination
	<1.5		

Conclusion

No (test)data on the mixture available

12.4 Mobility in soil:

flazasulfuron

(log) Koc

Parameter	Method	Value	Value determination
Koc		46.16	Experimental value

Conclusion

No (test)data on the mixture available

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No. 1907/2006.

12.6 Other adverse effects:

FLAZASULFURON25%WG

Global warming potential (GWP)

Ozone-depleting potential (ODP)

Ozone layer	Not dangerous for the ozone layer (1999/45/EC)

flazasulfuron

Ozone layer	Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2001/118/EC).

07 04 13* (solid wastes containing dangerous substances). Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into surface water.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

	UN number	3077
14.	2 UN proper shipping name:	

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

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Techn./chem. name ADR	flazasulfuron	
4.3 Transport hazard class(es):		
Hazard identification number	90	
Class	9	
Classification code	M7	
1.4 Packing group:		
Packing group	III	
Labels	9	
1.5 Environmental hazards:	·	
Environmentally hazardous substance mark	yes	
1.6 Special precautions for user:		
Special provisions	274	
Special provisions	335	
Special provisions	601	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging	
Elimited quantities	for solids. A package shall not weigh more than 30 kg. (gross ma	
(RID)		
1.1 UN number:		
UN number	3077	
1.2 UN proper shipping name:		
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.	
Techn./chem. name RID	flazasulfuron	
1.3 Transport hazard class(es):	1	
Hazard identification number	90	
Class	9	
Classification code	M7	
	IVI 7	
1.4 Packing group:		
Packing group		
Labels	9	
1.5 Environmental hazards:		
Environmentally hazardous substance mark	yes	
1.6 Special precautions for user:	-	
Special provisions	274	
Special provisions	335	
Special provisions	601	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging	
	for solids. A package shall not weigh more than 30 kg. (gross ma:	
nd waterways (ADN)		
1.1 UN number:		
UN number	3077	
1.2 UN proper shipping name:		
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.	
Techn./chem. name ADN	flazasulfuron	
1.3 Transport hazard class(es):	·	
Class	9	
Classification code	M7	
	IVI /	
1.4 Packing group:	lui	
Packing group		
Labels	9	
1.5 Environmental hazards:		
Environmentally hazardous substance mark	yes	
1.6 Special precautions for user:		
Special provisions	274	
Special provisions	335	
Special provisions	601	
Limited quantities	Combination packagings: not more than 5 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mas	
Emilieu quantities		
IMDG)		
(IMDG) 3.1 UN number:		
	3077	

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Proper shipping name	Environmentally hazardous substance, solid, n.o.s.	
Techn./chem. name IMO	flazasulfuron	
.3 Transport hazard class(es):		
Class	9	
.4 Packing group:		
Packing group	III	
Labels	9	
.5 Environmental hazards:	·	
Marine pollutant	Р	
Environmentally hazardous substance mark	yes	
.6 Special precautions for user:	·	
Special provisions	274	
Special provisions	335	
Limited quantities		
7 Transport in bull, according to Appen II of MARROL 32/70	and the IDC Code:	
.7 Transport in bulk according to Annex II of MARPOL 73/78	allu tile ibc code.	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR)	and the IBC Code.	
Annex II of MARPOL 73/78	3077	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1 UN number:		
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number		
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1 UN number: UN number 2 UN proper shipping name: Proper shipping name	3077	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name:	3077 Environmentally hazardous substance, solid, n.o.s.	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO	3077 Environmentally hazardous substance, solid, n.o.s.	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es):	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class .4 Packing group:	Bnvironmentally hazardous substance, solid, n.o.s. flazasulfuron	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class .4 Packing group: Packing group	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron 9	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class .4 Packing group: Packing group Labels .5 Environmental hazards:	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron 9	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class .4 Packing group: Packing group Labels	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron 9	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) .1 UN number: UN number .2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO .3 Transport hazard class(es): Class .4 Packing group: Packing group Labels .5 Environmental hazards: Environmentally hazardous substance mark	3077 Environmentally hazardous substance, solid, n.o.s. flazasulfuron 9	
Annex II of MARPOL 73/78 CAO-TI/IATA-DGR) 1 UN number: UN number 2 UN proper shipping name: Proper shipping name Techn./chem. name ICAO 3 Transport hazard class(es): Class 4 Packing group: Packing group Labels 5 Environmental hazards: Environmentally hazardous substance mark 6 Special precautions for user:	3077	

SECTION 15: Regulatory information

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

Europeanlegislation:

Volatile organic compounds (VOC)

0 %

Nationallegislation

-The Netherlands

Waterbezwaarlijkheid (for NL)	4
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 03

-Germany

WGK	2	Classification water polluting based on the com
		ponents in compliance with Verwaltungsvorschrift
		wassergefährdender Stoffe (VwVwS) of 27 July 2005
		(Anhang 4)

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

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

R20/22 Harmful by inhalation and if swallowed

R41 Risk of serious damage to eyes

R36/37 Irritating to eyes and respiratory system

Full text of any H-statements referred to under headings 2 and 3:

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H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, sto rage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data she et, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

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