

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 16/04/2021

Version: 0.0/CA (eng)

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

1.1. Product identifier

Trade name : FLAG LQD HERBICIDE

Name : S-metolachlor 58.5% + Metribuzin 13.8% EC

Product code : SHA 4223 A Registration # : 34052

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

1.2.1. Relevant identified uses

Main use category : Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Sharda Cropchem Ltd.

2nd Floor, Prime Business Park, Dashrathlal Joshi Road, Vile Parle (West)

400056 Mumbai - India

T + 91 22 6261 5615 - F + 91 22 6678 2828

regn@shardaintl.com

1.4. Emergency telephone number

Emergency number : 112

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
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS07

GHS08

Signal word (CLP) : Danger

Contains : S-metolachlor; reaction mass of (S)-2-chloro-N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-

methyl-ethyl)-acetamide (80-100%)

Hazard statements (CLP) : H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

16/04/2021 EN (English) 1/10

Safety Data Sheet

according to Regulation (EU) 2015/830

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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

contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P331 - Do NOT induce vomiting.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P405 - Store locked up.

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

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

2.3. Other hazards

No additional information available

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]
S-metolachlor; reaction mass of (S)-2-chloro-N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-methyl-ethyl)-acetamide (80-100%)	(CAS-No.) 87392-12-9 (EC Index-No.) 607-432-00-4	58.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Petroleum solvent	(CAS-No.) 64742-94-5 (EC-No.) 918-668-5	10-50	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Amines, tallow alkyl, ethoxylated	(CAS-No.) 61791-26-2	5-10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one	(EC-No.) 244-209-7 (EC Index-No.) 606-034-00-8	13.8	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a doctor.

First-aid measures after skin contact

: Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap.

16/04/2021 EN (English) 2/10

Safety Data Sheet

according to Regulation (EU) 2015/830

First-aid measures after eye contact : Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off

soft contact lenses and immediately take medical advice.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Reactivity in case of fire : Product is not explosive.

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

5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Keep away from

combustible materials.

Firefighting instructions : Appropriate self-contained breathing apparatus may be required. Get the package away

from the fire if this can be done without risk. Prevent fire fighting water from entering the

environment.

Protection during firefighting : Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective

equipment, including respiratory protection.

Other information : Do not allow material to contaminate surface water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant

gloves (according to European standard NF EN 374 or equivalent). EN 166. Wear eye

protection. Personal protective equipment. EN ISO 20345.

Emergency procedures : Evacuate personnel to a safe area.

6.1.2. For emergency responders

Protective equipment : Wear suitable hand, body and head protection.

6.2. Environmental precautions

Danger of pollution of drinking water when product enters the soil. Do not allow run-off from fire fighting to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Label the container and provide warning statements to prevent any contact.

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel). Clean spills promptly. Wash contaminated area with large amounts of water.

6.4. Reference to other sections

No additional information available

16/04/2021 EN (English) 3/10

Safety Data Sheet

according to Regulation (EU) 2015/830

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Do not allow run-off from fire fighting to enter drains or water courses. 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).

Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ensure adequate ventilation, especially in confined areas. Store locked up.

Storage conditions

: Keep only in original container. Store in a dry place. Store in a closed container. Store in a

well-ventilated place. Protect from sunlight.: 0 – 30 °C

Storage temperature Packaging materials

: Keep only in the original container in a cool, well-ventilated place away from combustible

materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

EN 166. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Safety Data Sheet

according to Regulation (EU) 2015/830

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:

Extra personal protection: P2 filter respirator for harmful particles. Extra personal protection: P3 filter respirator for toxic particles

: No data available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : No data available Odour : No data available Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point : No data available Boiling point Flash point : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

Explosive limits

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

Safety Data Sheet

according to Regulation (EU) 2015/830

10.4. Conditions to avoid

Heat. High temperature. Open flame. Direct sunlight.

10.5. Incompatible materials

No additional information available

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

Acute toxicity (oral) : Harmful if swallowed. : Not classified Acute toxicity (dermal) Acute toxicity (inhalation) : Not classified

S-metolachlor; reaction mass of (S)-2-chloro-N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-methyl-ethyl)-acetamide (80-

100 %) (07 392-12-9)	
LD50 oral rat	2577 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 2.91 mg/l/4h

metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3methylthio-1.2.4-triazin-5-one

methytano 1,2,4 thazh o one	
LD50 oral rat	322 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg bodyweight
LC50 Inhalation - Rat	2.045

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation Causes serious eye irritation. : May cause an allergic skin reaction. Respiratory or skin sensitisation

Germ cell mutagenicity : Not classified Not classified Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified.

(chronic)

S-metolachlor; reaction mass of (S)-2-chloro-N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-methyl-ethyl)-acetamide (80-100%) (87392-12-9)

10070) (01002 12 0)	
LC50 - Fish [1]	1.23 mg/l (96h, Oncorhynchus mykiss)
ErC50 algae	0.008 mg/l (120 h, Selenastrum capricornium)

metribuzin (ISO): 4-amino-6-tert-butyl-3-methylthio-1.2.4-triazin-5(4H)-one: 4-amino-4.5-dihydro-6-(1.1-dimethylethyl)-3-

methylthio-1,2,4-triazin-5-one	Table 1,2,4 that in o(41) one, 4 thinle 4,6 thinyare o (1,1 thinethylothyl) o
LC50 - Fish [1]	74.6 mg/l (96 h, <i>O. mykiss</i>)

16/04/2021 EN (English) 6/10

Safety Data Sheet

according to Regulation (EU) 2015/830

EC50 - Crustacea [1]	49 mg/l (48 h, <i>D. magna</i>)
EC50 72h - Algae [1]	0.02 mg/l (72 h, S. subspicatus)
ErC50 other aquatic plants	0.0079 mg/l (14 d, <i>L. gibba</i>)

12.2. Persistence and degradability

metribuzin (ISO); 4-amino-6-tert-butyl-3-methy methylthio-1,2,4-triazin-5-one	ylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

S-metolachlor; reaction mass of (S)-2-chloro-100%) (87392-12-9)	N-(2-ethyl-6-methyl-phenyl)-N-(2-methoxy-1-methyl-ethyl)-acetamide (80-
Partition coefficient n-octanol/water (Log Pow)	3.05
metribuzin (ISO): 4-amino-6-tert-butyl-3-meth	vlthio-1 2 4-triazin-5(4H)-one: 4-amino-4 5-dihydro-6-(1 1-dimethylethyl)-3-

metribuzin (ISO); 4-amino-6-tert-butyl-3-methyl methylthio-1,2,4-triazin-5-one	ylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-
Partition coefficient n-octanol/water (Log Pow)	1.7 (25 °C)

12.4. Mobility in soil

metribuzin (ISO); 4-amino-6-tert-butyl-3-methymethylthio-1,2,4-triazin-5-one	ylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-
Surface tension	63 mN/m (20 °C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

- : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Avoid release to the environment. Disposal must be done according to official regulations.

 Do not dispose of the packaging without first carrying out the necessary cleaning. Refer to manufacturer/supplier for information on recovery/recycling.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Safety Data Sheet

according to Regulation (EU) 2015/830

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9	9	9	9
9	9	9	9
Δ.	A	A	
9		***************************************	**************************************
III	III	III	III
erous for the onment : No pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	erous for the onment : No	erous for the Dangerous for the environment : No	erous for the Dangerous for the Dangerous for the environment : No environment : No

14.6. Special precautions for user

Overland transport

TDG Classification - Road/Rail:

UN Number : UN 3082

Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S. (S-Metolachlor/Metribuzin).

Transport Hazard Class : Class 9
Packing Group : PG III

Environmental Hazards : Environmentally hazardous.

Remarks : Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety

Marks, if transported solely on land by road vehicle or railway vehicle. 1.45.1. SOR/2008-34

Classification code (ADR) : N

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
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) : 274, 335, 969

16/04/2021 EN (English) 8/10

Safety Data Sheet

according to Regulation (EU) 2015/830

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : LP01, P001 Special packing provisions (IMDG) PP1 IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1, TP29 EmS-No. (Fire) F-A EmS-No. (Spillage) : S-F Stowage category (IMDG) Α

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

Inland waterway transport

Classification code (ADN) : M6

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

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

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

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

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

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Safety Data Sheet

according to Regulation (EU) 2015/830

Other information, restriction and prohibition regulations

: according to Regulation (EU) 2015/830.

15.1.2. National regulations

Refer to protective measures listed in Sections 7 and 8

15.2. Chemical safety assessment

Refer to protective measures listed in Sections 7 and 8

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Other data

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Replaces: - Indication of changes: -

SDS EU (REACH Annex II)

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.

16/04/2021 EN (English) 10/10