



SAVVY® PREMIUM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Revision date: 27-03-2018

Version: 3.2

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

1.1. Product identifier

Trade name : SAVVY® PREMIUM
Code product : FH-016 - Metsulfuron-methyl 200 g/kg SG -

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/preparation : Agriculture Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Europe Ltd
Hamilton House, Mabledon Place
London WC1H 9BB
United Kingdom
Tel : +44 020 7953 0447
msds@rotam.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS Direct (England and Wales)		111	
United Kingdom	NHS 24 (Scotland)		111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Acute 1; H400
Aquatic Chronic 1; H410
Eye Dam. 1; H318

Full text of H-phrases: 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 symbols :



Signal word (CLP) : Danger

Hazard statements (CLP) : H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Additional Hazard Statements (CLP) : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection.
P302+P352 - IF ON SKIN: Wash with soap and 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.
P310 - Immediately call a POISON CENTER or doctor/physician.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH phrases : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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]
Metsulfuron-methyl	(CAS No.) 74223-64-6 (EC index no) 613-139-00-2	20	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium carbonate	(CAS No.) 497-19-8 (EC no) 207-838-8 (EC index no) 011-005-00-2	5 - 15	Eye Irrit. 2, H319
Mixture of Alkyl-naphthalene sulfonate, sodium Salt and Sodium dioctyl sulphosuccinate		1 - 5	Skin irrit 2, H315 Eye dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact : Rinse immediately with plenty of water. In case of an skin reaction, consult a physician.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
Unsuitable extinguishing media : High volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO_x).
Reactivity : The product is stable at normal handling- and storage conditions.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Firefighting instructions : Prevent runoff from entering drains, sewers or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Prevent entry to sewers, drains and public waters. Notify authorities if product enters drains, sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up : Large spills: scoop solid spill into closing containers. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.

Incompatible materials : Oxidants, strong acids and strong bases.

Storage area : Store away from heat.

7.3. Specific end use(s)

Professional use. See the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid any unnecessary exposure. Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Remove and wash contaminated clothing before re-using.

Hand protection : Wear suitable protective gloves.

Skin and body protection : Wear suitable protective clothing

Eye protection : Face protection (FACESHIELD)

Respiratory protection : Ensure that there is adequate ventilation, especially in confined areas.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid - water soluble granules

Colour : Brown

Odour : No characteristic odour.

Odour threshold : No data available

pH : 6.2 (1% dilution), (CIPAC MT75)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 158°C (active ingredient: Metsulfuron-methyl, (EFSA Journal 2015;13(1):3936))

Solidification point : No data

Boiling point : No data

Flash point : Not applicable

Self ignition temperature : Not auto-flammable below 275°C (EEC A.16)

Decomposition temperature : 164°C (active ingredient: Metsulfuron-methyl, (EFSA Journal 2015;13(1):3936))

Flammability (solid, gas) : Not highly flammable (EEC A.10)

Vapour pressure : 1.1 10⁻⁹ Pa at 20°C (active ingredient: Metsulfuron-methyl, (EFSA Journal 2015;13(1):3936))

Relative vapour density at 20 °C : No data available

Relative density : 0.63g/ml (mean tap density, CIPAC MT169)

Solubility : No data available

Log Pow : pH 7: Log Pow at 20°C : -1.87 (active ingredient: Metsulfuron-methyl, (EFSA Journal 2015;13(1):3936))

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Log Kow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive (<i>theoretical evaluation</i>)
Oxidising properties	: Not oxidising (<i>EC Method A17</i>)
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling- and storage conditions.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Similar products	
LD50 oral rat	> 5000 mg/kg (<i>OECD 401, similar formulation tested: Metsulfuron 200g/kg WG</i>)
LD50 dermal rabbit	> 5050 mg/kg (<i>OECD 402, similar formulation tested: Metsulfuron 200g/kg WG</i>)
LC50 inhalation rat (mg/l)	> 6.22 mg/l, air/4-h (<i>OPPTS No.870.1300., active ingredient:Metsulfuron-methyl</i>)

Serious eye damage/irritation	: Causes serious eye damage (<i>calculation</i>)
Skin corrosion/irritation	: Not irritant to skin (<i>calculation</i>)
Respiratory or skin sensitisation	: Not skin sensitizing (<i>OECD 406, similar formulation tested: Metsulfuron 200g/kg WG</i>) <i>Not a skin sensitizer (Buehler and M&K, active ingredient:Metsulfuron-methyl, EFSA Journal 2015;13(1):3936)</i>
Germ cell mutagenicity	: Metsulfuron-methyl (CAS n°:74223-64-6) is unlikely to be genotoxic, (<i>EFSA Journal 2015;13(1):3936</i>)
Carcinogenicity	: Metsulfuron-methyl (CAS n°:74223-64-6) has no carcinogenic potential, (<i>EFSA Journal 2015;13(1):3936</i>)
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Similar product : Metsulfuron-methyl 200g/kg WG	
LC50 fishes, 96h	> 100 mg/l (<i>Cyprinus Caprio, EFSA Journal 2015;13(1):3936</i>)
EC50 daphnia, 48h	550 mg/l (<i>Daphnia magna, EFSA Journal 2015;13(1):3936</i>)
EyC50 (algae), 72h	0.183 mg/l (<i>Anabaena flos-aquae, EFSA Journal 2015;13(1):3936</i>)
EyC50 (other aquatic plants), 7d	0.00299 mg/l (<i>Lemna minor, EFSA Journal 2015;13(1):3936</i>)

12.2. Persistence and degradability

Metsulfuron-methyl (CAS n°:74223-64-6) is not readily biodegradable. (*EFSA Journal 2015;13(1):3936*)

12.3. Bioaccumulative potential

Metsulfuron-methyl (CAS n°:74223-64-6) (EFSA Journal 2015;13(1):3936)

Log Pow	-1.87 at 20°C, pH 7, (98.9% purity) (EFSA Journal 2015;13(1):3936) 1.0 at 20°C, pH 4, (99.6% purity) (EFSA Journal 2015;13(1):3936) -2.2 at 20°C, pH10, (99.6% purity) (EFSA Journal 2015;13(1):3936)
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12.4. Mobility in soil

Medium to very high (KFoc = 4 - 207 ml/g), (EFSA Journal 2015;13(1):3936)

12.5. Results of PBT and vPvB assessment

Metsulfuron-methyl (CAS n°:74223-64-6) does not fulfill the criteria of a PBT or vPvB substance

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.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
UN-No. (ADN)	: 3077
UN-No. (RID)	: 3077

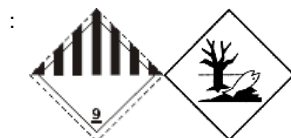
14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl), 9, III, (E)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, SOLID, n.o.s. (Metsulfuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metsulfuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



IMDG

Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9



IATA

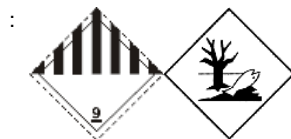
Transport hazard class(es) (IATA)	: 9
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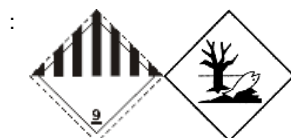
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

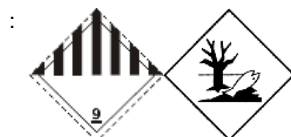
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

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

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V13

Special provisions for carriage - Bulk (ADR) : VC1, VC2

Special provisions for carriage - Loading, unloading and handling (ADR) : CV13

Hazard identification number (Kemler No.) : 90

Orange plates :

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Tunnel restriction code (ADR) : E
EAC code : 2Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002, LP02
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : T1, BK1, BK2, BK3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg
Special provisions (IATA) : A97, A158, A179, A197
ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M7
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T* B**
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M7
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1
Packing instructions (RID) : P002, IBC08, LP02, R001
Special packing provisions (RID) : PP12, B3
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T1, BK1, BK2
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAV, LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W13
Special provisions for carriage – Bulk (RID) : VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 90

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

The mixture is registered as a plant protection product according to Regulation (EC) No.1107 / 2009.

SECTION 16: Other information

This MSDS supersedes all previous editions.

Full text of H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation
H318	Causes serious eye damage
H315	Causes skin irritation.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam Europe Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.