

Safety Data Sheet according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 28-02-2024 :

Version: 1.0

SECTION 1: Ide	entification of the substa	nce/mixture and of the con	npany/undertaking	
1.1. Product i	dentifier			
Trade name	:	HADDEN [®]		
Product code	: F	H-045 - Thifensulfuron-methyl 400	g/kg + Tribenuron-methyl 15	50g/kg WG -
1.2. Relevant	identified uses of the substanc	e or mixture and uses advised ag	gainst	
	identified uses			
Main use category		Professional use		
Use of the substanc	e/preparation : A	Agriculture Herbicide		
1.2.2. Uses adv No additional inform	ised against ation available			
1.3. Details of Albaugh Europe Sài World Trade Center Avenue Gratta-Paille 1018 Lausanne Switzerland Tel : +41 21 799 913 sds@albaugh.eu	Lausanne e 2	sheet		
	cy telephone number			
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Chemical Emergency	Address	01865 407333	24/7
J	Centre (UK)			
No additional inform 2.2. Label ele				
Labelling accordin Hazard symbols	g to Regulation (EC) No. 1272/2	6008 [CLP]		
Signal word (CLP)	: V	Varning		
Hazard statements (CLP) : H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (CLP) : P273 - Avoid release to the environment 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-hazardow waste.				
EUH phrases	E	EUH208 - Contains tribenuron-meth EUH401 - To avoid risks to human h Ise		
PPP safety precauti		SP 1 - Do not contaminate water wite equipment near surface water/Avoid		
2.3. Other haz	ards			
No additional inform	ation available			
SECTION <u>3: Co</u>	mposition/information o	n ingredients		
3.1. Substance Not applicable				

Safety Data Sheet according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thifensulfuron-methyl	(CAS No.) 79277-27-3 (EC index no) 016-096-00-2	40	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tribenuron-methyl	(CAS No.) 101200-48-0 (EC no) 401-190-1 (EC index no) 607-177-00-9	15	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Mixture of Alkylnaphthalene sulfonate, sodium salt and Sodium dioctyl sulphosuccinate		1 - 5	Skin irrit 2, H315 Eye dam. 1, H318
Mixture of Sulfonated aromatic polymer, sodiumsalt and Sodium dioctyl sulphosuccinate		1 - 5	Skin irrit 2, H315 Eye dam. 1, H318
Sulfonated aromatic polymer, sodiumsalt		5 - 15	Skin irrit 2, H315 Eye irrit 2, H319

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

Full lexi	of H- and EUH-phrases: see section 16		
4.1.	Description of first aid measures		
First-aid	l measures general	: Call a poison center or a doctor if you feel unwell.	
First-aid	I measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doct if you feel unwell.	
First-aid	I measures after skin contact	: Rinse immediately with plenty of water. In case of an skin reaction, consult a physician.	
First-aid	I 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	I measures after ingestion	: Do NOT induce vomiting. Obtain emergency medical attention.	
4.2.	Most important symptoms and effe	cts, both acute and delayed	
No addi	tional information available		
4.3.	Indication of any immediate medica	I attention and special treatment needed	
Treat sy	mptomatically.		
SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).	
Unsuita	ble extinguishing media	: High volume water jet.	
5.2.	Special hazards arising from the su	bstance or mixture	
Hazardo fire	ous decomposition products in case of	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NOx).	
5.3.	Advice for firefighters		
Protecti	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECT	ION 6: Accidental release mea	sures	
6.1.	Personal precautions, protective eq	uipment and emergency procedures	
6.1.1.	For non-emergency personnel		
Emerge	ncy procedures	: Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
6.1.2.	For emergency responders		
Protecti	ve equipment	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).	
6.2.	Environmental precautions		
	allow material to contaminate ground was sewers or public waters. Avoid release to	er system. Prevent entry to sewers, drains and public waters. Notify authorities if product enters of the environment.	
6.3.	6.3. Methods and material for containment and cleaning up		
For con	tainment	: Sweep or shovel spills into appropriate container for disposal.	
Method	s 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.	

Reference to other sections 6.4.

No additional information available

HADDEN®

Safety Data Sheet according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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.
7.2. Conditions for safe storage, includ	ding 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/per	sonal 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 be
	properly maintained. Store personal protective equipment in a clean place, away from the work
Hand protection	area. Remove and wash contaminated clothing before re-using.Wear suitable protective gloves.
Eve protection	: Chemical goggles or safety glasses.
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 dispersible granule
Appearance	: Rod-shaped granules
Colour	: Off-white
Odour	: Mild characteristic odour
pH_at 1%(aqueous dilution, emulsion or dispersion)	: 5.02 at 25°C <i>(CIPAC MT 75.3)</i>
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Measured up to 171°C (active substance: Thifensulfuron-methyl), 137.9°C (active substance tribenuron-methyl)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Self ignition temperature	: No self-ignition up to 400°C (EEC A.16)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not highly flammable (EEC A. 10)
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Tap density	: 0.75 g/ml (CIPAC (F) MT 169)
Solubility	: No data available
Log Pow	 0.78 at pH = 7 (active substance: tribenuron-methyl) 1.65 at pH = 7 (active substance: thifensulfuron-methyl)
Log Kow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
	: Not explosive (EEC A. 14)
Explosive properties	
Explosive properties Oxidising properties	: Not an oxidiser (EEC A. 17)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

HADDEN®

Safety Data Sheet

according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878		
10.2. Chemical stability		
Stable under normal conditions.		
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 and oxidation agents		
10.6. Hazardous decomposition products		
No additional information available		
SECTION 11: Toxicological informat	ion	
11.1. Information on toxicological effects		
HADDEN®		
LD50 oral rat	> 2000 mg/kg, (OECD 423)	
LD50 dermal rat	> 2000 mg/kg, (OECD 402)	
LC50 inhalation rat (mg/l)	> 3.46 mg/l/4h, (OECD 403)	
Skin corrosion/irritation	: Not irritant to skin (OECD Guideline n°404)	
Serious eye damage/irritation	: Not irritant to eyes (OECD Guideline n°405)	
Respiratory or skin sensitisation	: Not skin sensitizing (OECD Guideline n°406)	
Repeated dose toxicity	: Not classified	
Carcinogenicity	: Not classified	
Mutagenicity	: Not classified	
Toxicity for reproduction	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
11.2. Information on other hazards		
Endocrine disrupting properties	: None	
Other information	: None	

SECTION 12: Ecological information

12.1. Toxicity		
HADDEN®		
LC50 fishes 96h	> 100 mg/L, (O. <i>mykiss), (OECD 203)</i>	
EC50 daphnia 48h	31.36 mg/L, (<i>D. magna), (OECD 202)</i>	
EbC50 algae 72h	0.068 mg/L, (P. subcapitata) (OECD 201)	
EC50 aquatic plant 14d	0.00093 mg/L, (<i>L. gibba), (OECD 221)</i>	

12.2. Persistence and degradability

Thifensulfuron-methyl is not readily biodegradable. Tribenuron-methyl is not readily biodegradable.

12.3. Bioaccumulative potential		
Thifensulfuron-methyl		
Log Pow	1.65 at pH = 7	
Tribenuron-methyl		
Log Pow	0.78 at pH = 7	
12.4. Mobility in soil		

Tribenuron-methyl: KFoc= 9.8 - 74 ml/g

Thifensulfuron-methyl: KFoc= 3 - 86 ml/g

12.5. Results of PBT and vPvB assessment

Thifensulfuron-methyl and tribenuron-methyl do not fulfill the criteria of PBT substances.

12.6.	Endocrine disrupting properties
None kno	wn
12.7.	Other adverse effects
None kno	wn

HADDEN®

Safety Data Sheet

SECTION 13: Disposal considerat	ions
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport informatic	on
In accordance with ADR / RID / ADNR / IMDO	G / 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. (Thifensulfuron- methyl/Tribenuron-methyl), 9, III, (E)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron methyl/Tribenuron-methyl), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3077 Environmentally hazardous substance, SOLID, n.o.s. (Thifensulfuron- methyl/Tribenuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron methyl/Tribenuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron methyl/Tribenuron-methyl), 9, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 9 : 9
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 9 : 9
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 9 : 9
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 9 : 9

Safety Data Sheet according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

RID Transport hazard class(es) (RID) Danger labels (RID)	: 9 : 9
14.4. Packing group	
Packing group (ADR) Packing group (IMDG)	: III : III
Packing group (IATA)	: III
Packing group (ADN) Packing group (RID)	: III : 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)	
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR) Mixed packing provisions (ADR)	: PP12, B3 : 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	90 3077
Tunnel restriction code (ADR) EAC code	: E : 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

Safety Data Sheet

according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

according to Regulation No. 1907/2006 (REACH) with its	
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

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH 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.

HADDEN® is a registered trademark of ALBAUGH.

Safety Data Sheet

according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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	
Skin Sens. 1	Skin sensitisation Category 1	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2	
Skin Irrit. 2	skin corrosion/irritation Category 2	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H319	Causes serious eye 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 Albaugh Europe Sarl 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.