

Version: 1.2

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

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1.1. Product identifier	
Product form	: Mixture
Product name	: SEDUCE
Type of formulation	: Water soluble granules (SG)
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Plant protection product for professional use. Agriculture.
Use of the substance/mixture	: Herbicide.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safe	hu data shaat
Supplier:	
Du Pont (UK) Limited Wedgwood Way	
Stevenage, Herts. SG1 4QN	
United Kingdom	
Tel : +44 (0) 1438 734 000	
E-mail: <u>sds-support@che.dupont.com</u>	
Distributor:	
CERTIS UK	
Suite 5, 3 Riverside	
Granta Park	
Great Abington	
Cambridgeshire CB21 6AD	
United Kingdom	
Tel: +44 (0)845 373 0305	
Fax: +44 (0)1223 891210	

Email: <u>certis@certiseurope.co.uk</u> Website: <u>www.certiseurope.co.uk</u>

1.4.	Emergency telephone number	
Emergency number :		: Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
		For advice on medical emergencies, fires, spillages or chemical hazards only -phone: 0870 190
		6777.
		For further advice for medical professionals - The National Poisons Information Service:
		Tel: 0870 600 6266 (UK only) or Dublin Tel: 0035 3 137 99 64/379966.
		For further advice for veterinary surgeons: 020 7635 9195.



Revision date: 26/07/2017 :

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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	
Full text of H-phrases: see section 16.	
2.2. Label elements	
Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS09
Signal word (CLP)	: Warning
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 suitable disposal site in accordance with local and national regulations.
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. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thifensulfuron methyl	(CAS No) 79277-27-3	25 - 50	Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Sodium carbonate	(CAS No) 497-19-8	10 - 20	Eye Irrit. 2, H319
	(EC no) 207-838-8		
	(REACH-no) 01-2119485498-19		
Tribenuron methyl	(CAS No) 101200-48-0	10 - 25	Skin Sens. 1, H317
	(EC no) 401-190-1		Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
Trisodium phosphate dodecahydrate	(CAS No) 10101-89-0	1 - 10	Skin Corr. 1A, H314
	(REACH-no) 01-2119489800-32		Eye Dam. 1, H318

Full text of H-phrases: see section 16



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SECTION 4: First aid measures

and easy to do. Continue rinsing. Consult an eye specialist.	First-aid measures general In the event of any complaints or symptoms, avoid further exposure. First-aid measures after inhalation If INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortation to the strain in the symptoms persist call a doctor. First-aid measures after skin contact If INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortation to the strain indication or rash occurs: Get medical advice/attention. First-aid measures after eye contact If IF NP YES: Rines calluously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist. First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mout to an unconscious person. 42. Most important symptoms and effects. both acute and delayed Symptoms/injuries : No information available. 43. Indication of any immediate medical attention and special treatment needed Vo. additional information available. 43. Indication diagnedia : Valer spray Diry chemical powder Alcohol resistant foam Carbon dioxide (CO ₂). Jusuitable extinguishing media : : Valer spray Diry chemical powder : Corbon dioxide (CO ₂). .			
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	Wear a self-contained breathing apparatus.			
Wear a self-contained breathing apparatus.		Protection during firefighting	: Wear suitable protective clothing, gloves, eye/face protection and respiratory protection	
	SECTION 6: Accidental release measures		Wear a self-contained breathing apparatus.	

: Wear suitable protective clothing, gloves and eye or face protection.

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment



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:

Emergency procedures :	Evacuate area.
	Ensure adequate ventilation.
	Avoid direct contact with the substance.
	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or
	streams.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
Notify the authorities if product enters sewers or pu	blic waters.
6.3. Methods and material for containment	
Methods for cleaning up :	Clean up any spills as soon as possible, using an absorbent material to collect it.
	Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.
	Remove as chemical waste, according to national or local legislation.
	In the event of major spillage: contact an expert.
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 :	Read label before use.
	Provide appropriate exhaust ventilation at places where dust is formed.
	Avoid contact with eyes, skin, nose and mouth.
	Wear suitable protective clothing, gloves and eye/face protection.
	Opened containers must be carefully closed and kept upright to avoid leakage.
Hygiene measures :	Always wash your hands immediately after handling this product, and once again before leaving the workplace.
	Contaminated work clothing should not be allowed out of the workplace.
	Do not eat, drink or smoke when using this product.
	Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures :	Provide adequate ventilation.
Storage conditions :	Prevent unauthorised access.
	Keep locked up and out of the reach of children.
	Keep in original containers, tightly closed.
	Keep away from food, drink and animal feedingstuffs.
	Protect against frost.
	Keep away from heat and direct sunlight.
	Do not allow product to become wet during storage.

Storage temperature

: <35 °C



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7.3. Specific end use(s) Herbicide for agricultural use. Refer to the label. **SECTION 8: Exposure controls/personal protection** 8.1. **Control parameters** No additional information available. 8.2. **Exposure controls** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity Appropriate engineering controls of any potential exposure. Ensure adequate ventilation, especially in confined areas. Eye protection : Safety goggles or a face shield. (EN 166) Hand protection : Wear impervious gloves resistant to chemical. Nitrile rubber. (EN 374) Glove thickness: 0.3 mm Protection index: Class 6 Wearing time: >480 min Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them with soap and water. Skin and body protection Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots. Full protective clothing Type 5 (EN 13982-2) When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345). To optimize the ergonomy it may be recommended to use cotton underwear when wearing some fabrics. Mixer and loaders: Full protective clothing Type 5 + 6 (EN ISO 13982-2/ EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Low application (horticulture, field crops): Full protective clothing Type 6 (EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Mechanical automatized spray application in closed tunnel: No personal body protection normally required.

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Respiratory protection	: Wear appropriate respirator for dust / organic vapors. Half mask with a particle filter FFP1 (EN149).
	Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory
	protective equipment normally required.
	Tractor / sprayer without hood: Low application (horticulture, field crops): Half mask
	with a particle filter FFP1 (EN149).
	Backpack / knapsack sprayer: Low application (horticulture, field crops): Half mask
	with a particle filter P1 (EN 143).
Hygiene measures	: Do not eat, drink or smoke while handling the product.
	Clean gloves with soap and water before removing.
	Wash hands and face with soap and water before eating, drinking or smoking.
	Clean equipment, premises and work clothes regularly.
	Work clothing should remain on the work area and stored separately from street clothes.
Environmental exposure controls	: Discharge into the environment must be avoided.
	Do not contaminate surface and groundwater.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Appearance	: Granules.
Colour	: Light brown.
Odour	: Slight.
Odour threshold	: Not applicable.
рН	: 9.1 10 g/l (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Molting point	

Physical state	: Solid
Appearance Colour	: Granules. : Light brown.
Odour	: Slight.
Odour threshold	: Not applicable.
рН	: 9.1 10 g/l (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable.
Flash point	: Not applicable.
Auto-ignition temperature	: 385 °C
Decomposition temperature	: No data available
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
Density Solubility	: 692 kg/m³ : No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No explosive properties.
Oxidising properties	: No oxidising properties.



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Explosive	ve limits	: No data available
9.2.	Other information	
No additi	tional information avail	able
SECTI	ON 10: Stability a	and reactivity
10.4	Depetivity	
10.1. The prod	Reactivity	bondling and storage conditions
10.2.	Chemical stability	I handling and storage conditions.
		I handling and storage conditions.
10.3.	Possibility of hazar	
		under conditions of normal use.
0	rization will not occur.	
-	mposition if stored and	applied as directed.
10.4.	Conditions to avoid	1
Decomp	oses slowly on exposu	ire to water.
To avoid	d thermal decompositio	n, do not overheat.
Under se	evere dusting conditior	ns, this material may form explosive mixtures in air.
10.5.	Incompatible mater	ials
No additi	tional information availa	able.
10.6.	Hazardous decomp	osition products
Sulphur (oxides.	gical information
SECTI	ON 11: Toxicolog	
SECTI 11.1.	ON 11: Toxicolog	cological effects
SECTI	ON 11: Toxicolog	
SECTI 11.1.	ON 11: Toxicolog	cological effects
SECTION 11.1. Acute to:	ON 11: Toxicolog Information on toxi xicity CE	cological effects
SECTION 11.1. Acute tox SEDUC LD50 o	ION 11: Toxicolog Information on toxi pricity CE pral rat	cological effects : Not classified > 5000 mg/kg
SECTION 11.1. Acute tox SEDUC LD50 o	ON 11: Toxicolog Information on toxi xicity CE	cological effects : Not classified > 5000 mg/kg
SECTION 11.1. Acute tox SEDUC LD50 o	Information on toxi ixicity CE oral rat isulfuron methyl (792	cological effects : Not classified > 5000 mg/kg
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 /	Information on toxi ixicity CE oral rat isulfuron methyl (792 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 /	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg
SECTION 11.1. Acute to: SEDUC LD50 o Thifen: LC50 / Triben LC50 /	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) > 6.0 mg/kg
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 / Triben	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) > 6.0 mg/kg : No skin irritation (rabbit)
SECTION 11.1. Acute to: SEDUC LD50 o Thifens LC50 / Triben LC50 /	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat uron methyl (101200- 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) -
SECTION 11.1. Acute to: SEDUC LD50 o Thifen: LC50 / Triben LC50 / Irritation Corrosivi	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) > 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified
SECTION 11.1. Acute to: SEDUC LD50 o Thifens LC50 / Irritation Corrosivi Sensitisa	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat uron methyl (101200- 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) - : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig)
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 / Triben LC50 / Irritation Corrosivi Sensitisa Repeate	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat 4 h rat 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) > 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Not classified
SECTION 11.1. Acute to: SEDUC LD50 o Thifens LC50 / Irritation Corrosivi Sensitisa	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat 4 h rat 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) • 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Thifensulfuron methyl. Animal testing did not show any carcinogenic effects.
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 / Triben LC50 / Irritation Corrosivi Sensitisa Repeate	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat 4 h rat 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) • 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Thifensulfuron methyl. Animal testing did not show any carcinogenic effects. Tribenuron methyl. Not classifiable as a human carcinogen.
SECTION 11.1. Acute tox SEDUC LD50 o Thifens LC50 / Triben LC50 / Irritation Corrosivi Sensitisa Repeate	Information on toxi information on toxi initiation CE foral rat sulfuron methyl (792 4 h rat 4 h rat 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) • 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Thifensulfuron methyl. Animal testing did not show any carcinogenic effects.
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SECTION 11.1. Acute to: SEDUC LD50 o Thifens LC50 / Irritation Corrosivi Sensitisa Repeate Carcinog	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat uron methyl (101200- 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) > 6.0 mg/kg : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Thifensulfuron methyl. Animal testing did not show any carcinogenic effects. Tribenuron methyl. Not classifiable as a human carcinogen. An increased incidence of tumours was observed in laboratory animals. Target(s): Mammary glands.
SECTION 11.1. Acute to: SEDUC LD50 o Thifens LC50 / Irritation Corrosivi Sensitisa Repeate Carcinog	Information on toxi ixicity CE oral rat sulfuron methyl (792 4 h rat uron methyl (101200- 4 h rat 4 h rat	cological effects : Not classified > 5000 mg/kg 77-27-3) > 7.9 mg/kg -48-0) -48-0) : No skin irritation (rabbit) No eye irritation (rabbit) No eye irritation (rabbit) : Not classified : Animal test did not cause sensitization by skin contact. (guinea pig) : Not classified : Thifensulfuron methyl. Animal testing did not show any carcinogenic effects. Tribenuron methyl. Not classifiable as a human carcinogen. An increased incidence of tumours was observed in laboratory animals. Target(s): Mammary glands. : Thifensulfuron methyl. Tests on bacterial or mammalian cell cultures did not show mutagenic



Toxicity for reproduction	Thifensulfuron methyl. No toxicity to reproduction.
	Tribenuron methyl. No toxicity to reproduction.
Assessment teratogenicity	Thifensulfuron methyl. Did not show teratogenic effects in animal experiments. Animal testing
	showed effects on embryo-fetal development at levels equal to or above those causing maternal
	toxicity.

SECTION 12: Ecological information

12.1. Toxicity

SEDUCE	
LC50 Fishes (Oncorhynchus mykiss)	> 130 mg/l (96h)
EC50 Daphnia (<i>Daphnia magna</i>)	> 130 mg/l (48 h)
EC50 other aquatic organisms (Lemna gibba)	0,029 mg/l (14 d)
12.2. Persistence and degradability	

SEDUCE Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

SEDUCE	
Bioaccumulative potential	not bioaccumulable.
12.4 Mobility in soil	

No additional information available

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

12.6. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations		

13.1. Waste treatment methods

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

14.1.	UN number	
UN-No.		: 3077
14.2.	UN proper shipping name	
Proper S	Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl, Tribenuron methyl)
Transport document description		: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron- methyl, Tribenuron methyl), 9, III, (E)



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14.3.	Transport hazard class(es)		
Class (L	JN)	: 9	
14.4.	Packing group		
	group (UN)	: 111	
Packing	i group (UN)	. 111	
14.5.	Environmental hazards		
Dangero	ous for the environment		
Marine (pollutant		
Other in	formation	: No supplementary information available.	
14.6.	Special precautions for user		
14.6.1.	Overland transport		
Tunnel ı	restriction code	: E	
14.6.2.	Transport by sea		
No addi	tional information available		
14.6.3.	Air transport		
No addi	tional information available		
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not app	licable		
SECT	ION 15: Regulatory informatio	n	
15.1.	Safety, health and environmental re	egulations/legislation specific for the substance or mixture	
15.1.1.	EU-Regulations		
No REA	CH Annex XVII restrictions		
Contain	s no REACH candidate substance		
15.1.2. National regulations			
ino addi	tional information available		
15.2.	Chemical safety assessment		
	tional information available		
	ON 16: Other information		
	c Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquati			
	c Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
-	ic Chronic 1 am. 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1 Serious eye damage/eye irritation, Category 1	



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Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Sens. 1	Sensitisation — Skin, category 1
H314	Causes severe skin burns and eye damage
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