

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

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

1.1 Product identifier

Product name GRANSTAR® MEGA

Other means of identification

Product code 50000084

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

Use of the Sub- stance/Mixture	Herbicide
Recommended restrictions on use	Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC France
11 bis Quai Perrache
69002 LYON
France

Telephone: 04 37 23 65 70
Telefax: 04 78 71 08 46
E-mail address: SDS-Info@fmc.com, fmc.france@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Company emergency number - BIG (24 hours):
+32 14 58 45 45

Medical emergency:
Poison centers in France:
Paris: 01.40.05.48.48
Lyon: 04.72.11.69.11
Marseille: 04.91.75.25.25
Lille: 0800 59 59 59
ORFILA: +33 (0) 1 45 42 59 59 (poison control center)
Company: 04.37.23.65.70, accessible from 8:30 am to 6:00
pm, Monday to Friday

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P260 Do not breathe dust.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P391 Collect spillage.

Hazardous components which must be listed on the label:

Tribenuron-methyl

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tribenuron-methyl	101200-48-0 401-190-1 607-177-00-9	Skin Sens. 1; H317 STOT RE 2; H373 (Thyroid, Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	50
thifensulfuron-methyl (ISO)	79277-27-3 016-096-00-2	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	25
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, so- dium salts	68425-94-5	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 2,5 - < 10

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0 Revision Date: 05.01.2023 SDS Number: 50000084 Date of last issue: -
Date of first issue: 05.01.2023

Lignosulfonic acid, ethoxylated, sodium salts	68611-14-3	Skin Corr. 1; H314 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
Sodium polynaphthalene sulpho-nate	9084-06-4	Eye Irrit. 2; H319	>= 1 - < 10
Substances with a workplace exposure limit :			
kaolin	1332-58-7 310-194-1		>= 10 - < 20

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.
If unconscious, place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray, fog, or regular foam.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : Nitrogen oxides (NO_x)
Sulphur oxides
Carbon oxides
Hydrogen cyanide
Thermal decomposition can lead to release of irritating gases and vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
If it can be safely done, stop the leak.
Keep people away from and upwind of spill/leak.
Remove all sources of ignition.
Immediately evacuate personnel to safe areas.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the ap-
plication area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national
regulations.
Persons susceptible to skin sensitisation problems or asthma,
allergies, chronic or recurrent respiratory disease should not
be employed in any process in which this mixture is being
used.

Advice on protection against : Avoid dust formation. Provide appropriate exhaust ventilation
fire and explosion at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated
areas and containers place. Containers which are opened must be carefully re-
sealed and kept upright to prevent leakage. Electrical installa-
tions / working materials must comply with the technological
safety standards.

Further information on stor- : No decomposition if stored and applied as directed.
age stability

7.3 Specific end use(s)

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0 Revision Date: 05.01.2023 SDS Number: 50000084 Date of last issue: -
Date of first issue: 05.01.2023

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
kaolin	1332-58-7	VME	10 mg/m ³	FR VLE
Further information	Indicative exposure limits			
		TWA (Respirable dust)	0,1 mg/m ³	2004/37/EC
Further information	Carcinogens or mutagens			

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of dust exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: solid, granules
Colour	: brown
Odour	: mild
Odour Threshold	: not determined
Melting point/freezing point	: Not available for this mixture.
Initial boiling point and boiling range	: Not applicable
Flammability	: Does not sustain combustion.
Upper explosion limit / Upper flammability limit	: Not available for this mixture.
Lower explosion limit / Lower flammability limit	: Not available for this mixture.
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: Not available for this mixture.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: dispersible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Vapour pressure	: Not available for this mixture.
Relative density	: Not available for this mixture.
Density	: Not available for this mixture.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

Bulk density : Not available for this mixture.

Relative vapour density : Not applicable

Particle characteristics

Particle size : No data available

Particle Size Distribution : No data available

Shape : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The product is not oxidizing.

Self-ignition : Auto-ignition temperature
Not available for this mixture.

Evaporation rate : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

- | | | |
|---------------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Toxicology data for the components
Information source: Internal study report |
| Acute inhalation toxicity | : | LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Toxicology data for the components
Information source: Internal study report |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Toxicology data for the components
Information source: Internal study report |

Components:

Tribenuron-methyl:

- | | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50: > 5.000 mg/kg
Method: OECD Test Guideline 425 |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,14 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403 |
| Acute dermal toxicity | : | LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402 |

thifensulfuron-methyl (ISO):

- | | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,03 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403 |
| Acute dermal toxicity | : | LD50 (Rat): > 2.000 mg/kg |

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Lignosulfonic acid, ethoxylated, sodium salts:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Sodium polynaphthalene sulphonate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Remarks: Based on data from similar materials

kaolin:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

LD50: > 2.000 mg/kg
Method: OECD Test Guideline 420
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LD50: 5,07 mg/l
Method: OECD Test Guideline 436

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

LD50: > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : Toxicology data for the components
Information source: Internal study report

Components:

Tribenuron-methyl:

Species : Rabbit
Assessment : Not classified as irritant
Method : OECD Test Guideline 404
Remarks : May cause mild irritation.
Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

thifensulfuron-methyl (ISO):

Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Remarks	:	Minimal effects that do not meet the threshold for classification.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Remarks	:	No data available
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kaolin:

Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes
Remarks	:	Toxicology data for the components Information source: Internal study report

Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.
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Components:

Tribenuron-methyl:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	May cause mild irritation. Based on available data, the classification criteria are not met.

thifensulfuron-methyl (ISO):

Method	:	OECD Test Guideline 405
Result	:	No eye irritation

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Result	:	Eye irritation
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Lignosulfonic acid, ethoxylated, sodium salts:

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Result : Moderate eye irritation

Sodium polynaphthalene sulphonate:

Result : Eye irritation

kaolin:

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Species	: Guinea pig
Result	: Animal test did not cause sensitization by skin contact.
GLP	: no
Remarks	: Toxicology data for the components Information source: Internal study report
Remarks	: May cause sensitisation by skin contact. Information refers to the main component.

Components:

Tribenuron-methyl:

Test Type	: Maximisation Test
Species	: Guinea pig
Assessment	: May cause sensitisation by skin contact.
Method	: OECD Test Guideline 406
Result	: Causes skin sensitization.

thifensulfuron-methyl (ISO):

Species	: Guinea pig
Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

kaolin:

Method	: OECD Test Guideline 429
Result	: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

Components:

Tribenuron-methyl:

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

thifensulfuron-methyl (ISO):

Genotoxicity in vitro : Test system: Chinese hamster ovary cells
Method: OECD Test Guideline 476
Result: negative
Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

kaolin:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Not classified based on available information.

Components:

Tribenuron-methyl:

Remarks : No significant adverse effects were reported

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

thifensulfuron-methyl (ISO):

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Not classified based on available information.

Components:

Tribenuron-methyl:

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development., Did not show teratogenic effects in animal experiments.

thifensulfuron-methyl (ISO):

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

essment

kaolin:

Effects on fertility : Remarks: No data available

Effects on foetal develop-
ment : Remarks: No data available

STOT - single exposure

Not classified based on available information.

Components:

Tribenuron-methyl:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, single exposure.

Lignosulfonic acid, ethoxylated, sodium salts:

Assessment : May cause respiratory irritation.

kaolin:

Remarks : No significant adverse effects were reported

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Tribenuron-methyl:

Target Organs : Thyroid, Nervous system
Assessment : May cause damage to organs through prolonged or repeated
exposure.

kaolin:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Tribenuron-methyl:

Species : Rabbit
LOAEL : 80 mg/kg
Target Organs : Thyroid, Nervous system
Assessment : The substance or mixture is classified as specific target organ
toxicant, repeated exposure, category 2.
Remarks : Increased mortality or reduced survival

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

thifensulfuron-methyl (ISO):

Species	:	Rat
LOAEL	:	ca.200 mg/kg
Exposure time	:	90 d
Target Organs	:	No specific target organs noted
Symptoms	:	Reduced body weight

kaolin:

Remarks	:	No data available
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Aspiration toxicity

Not classified based on available information.

Components:

Tribenuron-methyl:

The substance does not have properties associated with aspiration hazard potential.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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Further information

Product:

Remarks	:	No data available
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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	Remarks: No data is available on the product itself.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data is available on the product itself.
Toxicity to algae/aquatic plants	:	Remarks: No data is available on the product itself.
Toxicity to soil dwelling organisms	:	Remarks: No data is available on the product itself.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Toxicity to terrestrial organisms : Remarks: No data is available on the product itself.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

Tribenuron-methyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): > 320 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 894 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0,068 mg/l
Exposure time: 72 h

ErC50 (Lemna gibba (duckweed)): 0,0047 mg/l
Exposure time: 7 d

NOEC (Lemna gibba (duckweed)): 0,001 mg/l
Exposure time: 7 d

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 114 mg/l
Exposure time: 21 d
Species: Cyprinodon variegatus (sheepshead minnow)
Method: OECD Test Guideline 211

NOEC: 560 mg/l
Exposure time: 21 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 41 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to soil dwelling organisms : NOEC: 3,2 mg/kg
Exposure time: 56 d

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Species: *Eisenia fetida* (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.250 mg/kg
Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 5.620 ppm
Species: *Colinus virginianus* (Bobwhite quail)
Remarks: Dietary

LD50: > 5.620 ppm
Species: *Anas platyrhynchos* (Mallard duck)
Remarks: Dietary

LD50: > 98.4 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: *Apis mellifera* (bees)

LD50: > 9.1 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: *Apis mellifera* (bees)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

thifensulfuron-methyl (ISO):

Toxicity to fish : LC50 (*Salmo gairdneri*): 100 mg/l
Exposure time: 96 h

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 250 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 120 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (green algae): 0,0159 mg/l
Exposure time: 72 h

ErC50 (*Raphidocelis subcapitata* (freshwater green alga)): 1,4 mg/l
Exposure time: 72 h

EC50 (*Lemna minor* (duckweed)): 1,3 µg/l

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l
Exposure time: 28 d

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

Species: *Salmo gairdneri*

NOEC: 10,6 mg/l

Exposure time: 21 d

Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other
aquatic invertebrates (Chronic
toxicity)

: NOEC: 100 mg/l

Exposure time: 21 d

Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic
toxicity)

: 100

Toxicity to soil dwelling or-
ganisms

: LC50: > 2.000 mg/kg

Species: *Eisenia fetida* (earthworms)

Toxicity to terrestrial organ-
isms

: LD50: > 2.510 mg/kg

Species: *Anas platyrhynchos* (Mallard duck)

LD50: > 5.620 ppm

Species: *Anas platyrhynchos* (Mallard duck)

Remarks: Dietary

LD50: > 5.620 ppm

Species: *Colinus virginianus* (Bobwhite quail)

LD50: > 7.1 µg/bee

End point: Acute oral toxicity

Species: *Apis mellifera* (bees)

LD50: > 100 µg/bee

End point: Acute contact toxicity

Species: *Apis mellifera* (bees)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Toxicity to fish

: LC50 (Zebra fish): > 10 - 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (*Daphnia magna* (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

: EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 100

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

plants	mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC10: > 10 - 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials

Sodium polynaphthalene sulphonate:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50: 5,37 - 8,77 mg/l Exposure time: 45 d Species: Daphnia magna (Water flea)
--	--

kaolin:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability	: Result: Not readily biodegradable. Remarks: Estimation based on data obtained on active ingredient.
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SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Components:

Tribenuron-methyl:

Biodegradability : Result: Not readily biodegradable.
Remarks: The product/substance is not persistent in the environment.
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.
Metabolites are considered as persistent.
According to the results of tests of biodegradability this product is not readily biodegradable.

thifensulfuron-methyl (ISO):

Biodegradability : Remarks: Not readily biodegradable.
Primary degradation half-lives vary with circumstances, from a few days to a few weeks in aerobic water and soil.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Biodegradability : Result: Not readily biodegradable.
Remarks: Based on data from similar materials

Lignosulfonic acid, ethoxylated, sodium salts:

Biodegradability : Result: Not readily biodegradable.

Sodium polynaphthalene sulphonate:

Biodegradability : Result: Not readily biodegradable.
Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

kaolin:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not bioaccumulate.
Estimation based on data obtained on active ingredient.

Components:

Tribenuron-methyl:

Bioaccumulation : Bioconcentration factor (BCF): < 1
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,38

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version 1.0	Revision Date: 05.01.2023	SDS Number: 50000084	Date of last issue: - Date of first issue: 05.01.2023
----------------	------------------------------	-------------------------	--

thifensulfuron-methyl (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 1
Remarks: Does not bioaccumulate.

kaolin:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: Potentially mobile, but the leaching potential is mitigated by rapid degradation in viable agricultural soils.

Components:

Tribenuron-methyl:

Distribution among environmental compartments : Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.

thifensulfuron-methyl (ISO):

Distribution among environmental compartments : Koc: 28,3, log Koc: 1,45
Remarks: Highly mobile in soils

Stability in soil :

kaolin:

Distribution among environmental compartments : Remarks: Low mobility in soil

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

REACH Article 57(f) or Commission Delegated regulation
(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at
levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : No other ecological effects to be specially mentioned.
See product label for additional application instructions relating to environmental precautions.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed hazardous waste management company (such as A.D.I.VALOR).
Contaminated packaging	: Empty and rinse the container. Dispose of as hazardous material. Do not re-use empty containers. Bring the opened, rinsed and drained containers to a company authorized to dispose of hazardous waste (such as A.D.I.VALOR). Waste disposal code: 02 01 08 agrochemical waste containing dangerous substances.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077
IATA	: UN 3077

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
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SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

	(Tribenuron-methyl, Thifensulfuron-methyl)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tribenuron-methyl, Thifensulfuron-methyl)
IATA	: Environmentally hazardous substance, solid, n.o.s. (Tribenuron-methyl, Thifensulfuron-methyl)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: 9	
RID	: 9	
IMDG	: 9	
IATA	: 9	

14.4 Packing group

ADN	
Packing group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
ADR	
Packing group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
RID	
Packing group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
IMDG	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
IATA (Cargo)	
Packing instruction (cargo aircraft)	: 956
Packing instruction (LQ)	: Y956

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: formaldehyde (Number on list 72, 28)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants : Not applicable

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Occupational Illnesses (R-461-3, France) : 25, 78, 43bis

Reinforced medical supervision (R4624-18) : The product has no CMR properties

ICPE section (Installations classified for environmental protection; Environmental code R511-9) : 4510

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

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.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
FR VLE	: France. Occupational Exposure Limits
2004/37/EC / TWA	: Long term exposure limit
FR VLE / VME	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending
Regulation (EC) No 1907/2006



GRANSTAR® MEGA

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05.01.2023	50000084	Date of first issue: 05.01.2023

- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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