

SAFETY DATA SHEET



GRANSTAR® 75WG

Version 1.0

Revision Date 2018.01.03

Document no. 130000000493

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

Section 1 - Chemical and Enterprise Identification

Product name : GRANSTAR® 75WG

Product name in English : GRANSTAR® 75WG

Other names : B10044203

Recommended use of the chemical and restriction on use

Recommended use : Herbicide

Manufacturer or supplier's details

Company : FMC Corporation

Street address : 2929 Walnut Street, Philadelphia, PA 19104,

E-mail : msdsinfo@fmc.com

Telephone : 86 21 20675888

Telefax : 86 21 20675858

Emergency telephone number : 86 532 8388 9090

Date of first preparation : 2018.01.03

Section 2 - Hazard Identification

GHS Hazard Category

Acute toxicity (Dermal) : Category 5

Target Organ Systemic : Category 2

Toxicant - Repeated exposure

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Danger

Hazardous warnings : May be harmful in contact with skin.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

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Precautionary
statements

Preventive Measures:

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Accident Response:

Call a POISON CENTER or doctor/ physician if you feel unwell.

Collect spillage.

Safe Storage: No precautionary statements are applicable for Safe Storage.

Waste Disposal:

Dispose of contents/container in accordance with local regulation.

Main Symptom After Contact

No information available.

Section 3 - Ingredients/Composition Information

Chemical nature : Mixture

Components

Chemical Name	CAS-No.	Concentration
Tribenuron methyl	101200-48-0	75 %
Sodium carbonate	497-19-8	4 %
Other Ingredients		21 %

Section 4 - First-aid Measures

Never give anything by mouth to an unconscious person.

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion : Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Most important symptoms/effects, acute and delayed : No information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

Section 5 - Fire-fighting Measures

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Suitable extinguishing media	: Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: High volume water jet, (contamination risk)
Specific hazards	: No information available.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	: No information available.
Further information	: Prevent fire extinguishing water from contaminating surface water or the ground water system. 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. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

Section 6 - Leak Emergency Treatment

Protective measures, devices and emergency treatment procedure for workers	: No information available.
Environmental precautions	: Prevent material from entering sewers, waterways, or low areas.
Methods and materials for containment and cleaning up	: Sweep up and shovel into suitable containers for disposal.
Prevention of secondary hazards	: No information available.
Additional advice	: Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

Section 7 - Operation Handling and Storage**Operation Handling**

Technical measures/Precautions	: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
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Precautions for safe handling	: Keep away from heat and sources of ignition.
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Storage

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Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.

Advice on common storage: No special restrictions on storage with other products.

Storage period: Storage temperature: < 50 °C
Stable under recommended storage conditions.

Section 8 - Exposure Control and Personal Protection

Control parameters

No information available.

Engineering controls : Ensure adequate ventilation.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Protective gloves

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.
End users of this product should follow label instructions for personal protection when using this product.

Section 9 - Physical and Chemical Properties

Appearance (Physical state, form, colour, etc.)

Physical state : solid
Form : solid, granular
Colour : light brown

Odour : mild sweet

Odour Threshold : No information available.

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pH	:	8.0 (10 g/l) (25 °C)
Melting point/freezing point		
Melting point/range	:	Not available for this mixture.
Boiling point, initial boiling point and boiling range		
No information available.		
Flash point	:	Not applicable
Evaporation rate	:	No information available.
Flammability (solid, gas)	:	Does not sustain combustion.
Upper/lower flammability or explosive limits		
Upper explosion limit	:	No information available.
Lower explosion limit	:	0.365 mg/m3
Vapour pressure	:	No information available.
Vapour density	:	No information available.
Density		
Bulk density	:	730 kg/m3
Solubility(ies)		
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature		
Auto-ignition temperature	:	400 °C
		Auto-ignition temperature
Decomposition temperature	:	No information available.
Viscosity		
Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.

Section 10 - Stability and Reactivity

Reactivity	:	No information available.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Polymerization will not occur.
Conditions to avoid	:	Processing temperature: > 140°C Decomposes slowly on exposure to water. To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.

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- Materials to avoid** : None reasonably foreseeable.
- Hazardous decomposition products** : Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

Section 11 - Toxicological Information**Acute toxicity**

Oral

GRANSTAR® 75WG : LD50/Rat: > 5,000 mg/kg

Inhalation

Tribenuron methyl : LC50/4 h/Rat(dust/mist): > 6.0 mg/l

Sodium carbonate : LC50/4 h/Rat(dust/mist): 1.15 mg/l

Target Organs: Respiratory Tract

Respiratory irritation

Dermal

GRANSTAR® 75WG : LD50/Rabbit: > 2,000 mg/kg

Skin corrosion/irritationGRANSTAR® 75WG : Species: Rabbit
Result: No skin irritation**Serious eye damage/eye irritation**GRANSTAR® 75WG : Species: Rabbit
Result: No eye irritation**Respiratory or skin sensitisation**Tribenuron methyl : Maximisation Test (GPMT)
Species: Guinea pig
Result: Causes sensitisation.**Germ cell mutagenicity**

GRANSTAR® 75WG : Did not cause genetic damage in cultured bacterial cells. Did not cause genetic damage in cultured mammalian cells. Did not cause genetic damage in animals.

CarcinogenicityGRANSTAR® 75WG : An increased incidence of tumours was observed in laboratory animals.
Target(s):
Mammary glands**Reproductive toxicity**

GRANSTAR® 75WG : Reproductive toxicity: Animal testing showed no reproductive toxicity.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

GRANSTAR® 75WG : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

Tribenuron methyl : No aspiration toxicity classification

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Other

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- : Repeated dose toxicity:
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Oral/Rat 28 d
No adverse effect has been observed in chronic toxicity tests.

Section 12 - Ecological Information

Ecotoxicity effects

Acute and prolonged toxicity to fish

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- : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 260 mg/l
LC50/96 h/Lepomis macrochirus (Bluegill sunfish): 340 mg/l

Toxicity to aquatic plants

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- : EbC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.06 mg/l
EC50/336 h/Lemna gibba (duckweed): 0.029 mg/l

Acute toxicity to aquatic invertebrates

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- : EC50/48 h/Daphnia magna (Water flea): > 1,000 mg/l

Chronic toxicity to fish

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- : NOEC/21 d/Oncorhynchus mykiss (rainbow trout): > 560 mg/l

Chronic toxicity to aquatic Invertebrates

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- : NOEC/21 d/Daphnia magna (Water flea): 120 mg/l

Persistence and degradability

Sodium carbonate

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

Bioaccumulation

Sodium carbonate

- : Does not bioaccumulate.

Mobility in soil

No information available.

Other adverse effects

No information available.

Section 13 - Waste Disposal

- Waste disposal methods** : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.

- Contaminated packaging** : Do not re-use empty containers.

Section 14 - Transport Information

China Dangerous Goods Regulation

- UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class : 9
Packing group : III

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IMDG

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tribenuron methyl)
Class : 9
Packing group : III
Marine pollutant : yes (Tribenuron methyl)

IATA

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Tribenuron methyl)
Class : 9
Packing group : III

Matters needing attention : Not applicable
for transportation

Section 15 - Regulatory Information

Regulation on the Safety Management of Hazardous Chemicals
Production Safety Law of the People's Republic of China
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease
Environmental Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution
Marine Environment Protection Law of the People's Republic of China
Fire Protection Law of the People's Republic of China
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes
Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)
General rule for classification and hazard communication of chemicals (GB13690)
Lists of Dangerous Goods (GB12268)
Dangerous goods classification (GB6944)
Common dangerous chemical storage rules (GB15603)
Packaging Symbols of Dangerous Goods (GB190)
National Hazardous Waste Inventory
The mixture is classified as dangerous in accordance with Directive 1999/45/EC.
Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.
Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

Section 16 - Other Information

References

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Significant change from previous version is denoted with a double bar.

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