

Version 1.0

Revision Date 02/01/2018 Ref. 130000118503

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Panoflex[™] Herbicide (with TotalSol[®] soluble granules)
Tradename/Synonym : DPX-SBN49 Herbicide (with TotalSol[®] soluble granules)

Tribenuron Methyl: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-

yl)methylamino]carbonyl]amino]sulfonyl]benzoate

Thifensulfuron Methyl: Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-

yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate

Product Use : Herbicide

Restrictions on use :

Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : FMC Corporation

2929 Walnut Street

Philadelphia, PA 19104, USA

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Medical Emergencies : 1800 / 331-3148 (ProPharma Group - U.S.A. & Canada)

1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call

1 800 / 424 9300 (CHEMTREC - U.S.A.)
 1 703 / 741-5970 (CHEMTREC - International)
 1 703 / 527 3887 (CHEMTREC - Alternate)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Skin sensitisation Category 1



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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.

Hazardous prevention

measures

: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Tribenuron methyl	101200-48-0	40 %
Thifensulfuron methyl	79277-27-3	10 %



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Trisodium phosphate dodecahydrate	10101-89-0	5 - 10 %
Sodium carbonate	497-19-8	5 - 10 %
Other Ingredients		30 - 40 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Have the product container or label with you when calling a poison control

center or doctor, or going for treatment. See Section 1 for emergency phone numbers.

See Label for Additional Precautions and Directions for Use.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. 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 : No specific intervention is indicated as the compound is not likely to be

hazardous. Consult a physician if necessary.

Ingestion : No specific intervention is indicated as the compound is not likely to be

hazardous. Consult a physician if necessary.

Most important symptoms/effects, acute

and delayed

Protection of first-aiders Notes to physician : No applicable data available.

No applicable data available.No applicable data available.

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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : No applicable data available.

Special protective equipment

for firefighters

: Wear full protective clothing and self-contained breathing apparatus.

Further information : (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. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet. Remove

clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after



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handling this product. Wash the outside of gloves before removing. As soon

as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects) : Keep away from heat and sources of ignition.

Dust explosion class : No applicable data available.

Storage : 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.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation.

Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material

Polyvinylchloride Shoes plus socks

Personal protective equipment required for early entry:

Coveralls

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such

instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Use this product in accordance with

its label.

Exposure Guidelines
Exposure Limit Values

Tribenuron methyl

AEL * (FMC) 0.5 mg/m3 12 hr. TWA AEL * (FMC) 1 mg/m3 8 hr. TWA

Sodium carbonate



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AEL * (FMC) 5 mg/m3 8 & 12 hr. TWA Total dust.

Thifensulfuron methyl

AEL * (FMC) 5 mg/m3 8 & 12 hr. TWA Total dust.

Trisodium phosphate dodecahydrate No applicable data available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : solid, granular Color : light brown

Odor : none

Odor threshold : No applicable data available.

pH : 9.4

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

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^{*} AEL is FMC's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.



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Vapour density : No applicable data available.

Specific gravity (Relative

density)

: No applicable data available.

Water solubility : No applicable data available.

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

Polymerization will not occur.

Conditions to avoid : None reasonably foreseeable.

Incompatible materials : No materials to be especially mentioned.

Hazardous decomposition

products

No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

Panoflex[™] Herbicide (with TotalSol[®] soluble granules)

Inhalation 4 h Acute : > 5.0 mg/l , Rat

toxicity estimate

Dermal Acute toxicity : > 5,000 mg/kg , Rat

estimate

Oral Acute toxicity estimate : > 5,000 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit

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Eye irritation : No eye irritation, Rabbit

Sensitisation : Causes sensitisation., Guinea pig

Further information : Information given is based on data on the components.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas

where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment

or disposing of equipment washwaters or rinsate.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods -

Product

: Do not contaminate water, food or feed by disposal. Wastes resulting from the

use of this product must be disposed of on site or at an approved waste

disposal facility.

Waste disposal methods -

Container

: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

See Section 1 for emergency phone numbers.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION



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IMDG

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IATA_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Tribenuron methyl, Thifensulfuron-methyl)

Class : 9

Packing group : III
Labelling No. : 9MI
UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Tribenuron methyl, Thifensulfuron-

methyl)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Tribenuron methyl, Thifensulfuron-methyl)

Not regulated as a hazardous material by DOT.

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US

Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information

required by USEPA on the pesticide label:

Caution

Prolonged or frequently repeated skin contact may cause allergic reactions in

some individuals. Avoid contact with skin, eyes and clothing.

SARA 313 Regulated

Chemical(s)

: Tribenuron methyl



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PA Right to Know Regulated Chemical(s)

: Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Trisodium phosphate dodecahydrate

EPA : In the United States this product is regulated by the US Environmental

Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

SECTION 16. OTHER INFORMATION

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Revision Date : 02/01/2018

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