

# Sovchem<sup>®</sup> DOTG

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Sovchem <sup>®</sup> DOTG Oiled Powder	Chemical Name: Guanidine, N, N'-bis(2-methylphenyl)
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Chemicals for synthesis.
Issued By: Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: May 1, 2023

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

H301 Acute toxicity (oral), Category 3

H412 Hazardous to the aquatic environment — Chronic Hazard, Category 3

### 2.2 Label elements

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS06

Signal word Danger

Hazard-determining components of labeling

1,3-di-o-tolylguanidine o-toluidine

Hazard statements

H301 - Acute toxicity (oral), Category 3

H412 - Hazardous to the aquatic environment — Chronic Hazard, Category 3

Precautionary statements

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation. Additional information: Restricted to professional users.

## 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions.

Chemical Name	CAS No	EC No	Weight %	Classification
Diorthotolyl guanidine	97-39-2	202-577-6	95-99%	Acute Tox. 3 (Oral), H301 Aquatic Chronic 3, H412

The remaining unspecified ingredients are impurities and are not hazardous.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks

Allergic reactions

Gastric or intestinal disorders

Headache

Dizziness

Hazards

Danger of circulatory collapse.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

Monitor circulation, possible shock treatment.

Medical supervision for at least 48 hours.

If necessary oxygen respiration treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

Ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Suppress gases/fumes/haze with water haze or fog.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.  
Keep away from heat and direct sunlight.  
Dust can combine with air to form an explosive mixture.  
Information about fire - and explosion protection: No special measures required.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.

Protect from humidity and water.

Due to photo-sensitivity, store product in brown-glass or stainless-steel receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Provide ventilation for receptacles.

Information about storage in one common storage facility

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

Store away from water.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles.

Store receptacle in a well-ventilated area.

Keep container tightly sealed.

Protect from heat and direct sunlight.

Protect from humidity and water.

7.3 Specific end use(s): No further relevant information available.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

### 8.1 Control parameters

Additional information: The lists valid during the making were used as basis.

Rubber Accelerator DOTG (97-39-2)

#### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 1.7 mg/kg bw/day

Long-term - systemic effects, inhalation 0.6 mg/m<sup>3</sup>

#### DNEL/DMEL (General population)

Long-term - systemic effects, oral 0.085 mg/kg bw/day

Long-term - systemic effects, inhalation 0.15 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 0.85 mg/kg bw/day

#### PNEC (Water)

PNEC aqua (freshwater) 56.8 µg/L

PNEC aqua (marine water) 5.68 µg/L

PNEC aqua (intermittent, freshwater) 72 µg/L

PNEC (Sediment)  
PNEC sediment (freshwater) 1.78 mg/kg dwt  
PNEC sediment (marine water) 0.178 mg/kg dwt

PNEC (STP)  
PNEC STP 10 mg/L

PNEC (Soil)  
PNEC soil 0.3222 mg/kg dwt

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

#### Respiratory protection



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

#### Protection of hands



Protective gloves

The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

#### Eye protection



Safety glasses

Body protection: Impervious protective clothing.

#### Limitation and supervision of exposure into the environment

No further relevant information available.

#### Risk management measures

See Section 7 for additional information.

No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

Appearance Form: Powder Color: Light Gray	Change in Condition Melt Point/Range: 175 - 179 °C Boiling point/Range: > 195 °C
Odor: Odorless	Odor threshold: Not determined
pH: Not applicable	Flash point: Not applicable
Vapor Pressure: 0.00001 Pa @ 25 °C	Flammability (solid, gaseous): Not flammable.
Density at 20 °C: 1.1 g/cm <sup>3</sup>	Ignition temperature: Not determined
Relative density: 0.286 @20 °C	Decomposition temperature: Not determined
Vapor Density (Air = 1): Not applicable	Self-igniting: Product is not self-igniting.
Evaporation rate: Not applicable.	Danger of explosion: Product does not present an explosion hazard.
Solubility in / Miscibility with water: Water: 70 mg/l @20 °C	Partition coefficient n-octanol/water (LogPow): 2.9 @25 °C
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

9.2 Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

Moist conditions

### 10.3 Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

Reacts with acids, alkalis and oxidizing agents.

Contact with acids releases toxic gases.

Photoreactive.

### 10.4 Conditions to avoid

Store away from oxidizing agents.

Moisture.

Keep away from heat and direct sunlight.

10.5 Incompatible materials: Contact with acids liberates toxic gases.

10.6 Hazardous decomposition products

Nitrogen oxides  
Carbon monoxide and carbon dioxide  
Danger of forming toxic pyrolysis products.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity: Toxic if swallowed.

Rubber Accelerator DOTG

LD50 oral rat 85.3 mg/kg male; 56 mg/kg female

LD50 dermal rat > 2000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Rubber Accelerator DOTG

NOAEL (animal/male, F0/P) 10 mg/kg bodyweight

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Rubber Accelerator DOTG (97-39-2)

LOAEL (oral, rat, 90 days) 32 mg/kg rat, OECD 408

Aspiration hazard : Not classified

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Rubber Accelerator DOTG

LC50 96h - fish 19.3 mg/l *Oryzias latipes*

EC50 48h - Crustacea 7.19 mg/l *Daphnia magna*

EC50 72h - algae 7.2 mg/l *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*)

NOEC (chronic) - Crustacea 2.84 mg/L *Daphnia magna*

NOEC (chronic) - algae 4.8 mg/L *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*)

12.2 Persistence and degradability: The product is not easily, but potentially biodegradable.

12.3 Bioaccumulative potential: Log Kow 2.9 @25 °C.

12.4 Mobility in soil: No further relevant information available.  
 Additional ecological information

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Recommendation

After prior treatment product must be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Uncleaned packaging

Recommendation: · Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number

DOT, ADR, IMDG, IATA, RID                      UN2811

14.2 UN proper shipping name

DOT, ADR, IMDG, IATA, RID                      TOXIC SOLID, ORGANIC, N.O.S. (1,3-di-o-tolyguanidine),

14.3 Transport hazard class

DOT



Class: 6.1 (T2) Toxic substances.

Label: 6.1

ADR, IMDG, IATA, RID



Class: 6.1 (T2) Toxic substances.

Label: 6.1

14.4 Packing group

DOT, ADR, IMDG, IATA, RID                      III

14.5 Environmental hazards

Marine pollutant                                      No

Special Marking (ADR)                              Symbol (fish and tree)



14.6 Special precautions for user  
 14.7 Transport in bulk according to  
 Annex II of MARPOL73/78 and the IBC Code:  
 UN "Model Regulation"

Warning: Toxic substances.  
  
 Not applicable.  
 UN2811, TOXIC SOLID, ORGANIC, N.O.S.,  
 ENVIRONMENTALLY HAZARDOUS, 6.1, III

**15. REGULATORY INFORMATION**

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

United States (USA)	
SARA Section 355 (extremely hazardous substances)	None of the ingredients is listed.
SARA Section 313 (Specific toxic chemical listings)	None of the ingredients is listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed.
Proposition 65 (California)	
Chemicals known to cause cancer	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients is listed.
Chemicals known to cause developmental toxicity	None of the ingredients is listed.
Canada	
Canadian Domestic Substances List (DSL)	All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients is listed.
Canadian Ingredient Disclosure list (limit 1%)	None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.