

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30

Version: 4.0

Page: 1/10

(30,092,124/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

Tinuvin® 400

Recommended use of the chemical and restriction on use

Recommended use*: stabilizer

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Canada Inc.
5025 Creekbank Road
Building A, Floor 2
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Hydroxyphenyltriazine derivative, preparation

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Flam. Liq.	3	Flammable liquids
STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure

Label elements

Pictogram:

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 2/10
(30,092,124/SDS_GEN_CA/EN)



Signal Word:
Warning

Hazard Statement:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P243 Take precautionary measures against static discharge.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.

Precautionary Statements (Response):

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370 + P378 In case of fire: Use foam or dry powder for extinction.

Precautionary Statements (Storage):

P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
107-98-2	>= 10.0 - < 20.0%	1-methoxypropan-2-ol

4. First-Aid Measures

Description of first aid measures

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 3/10
(30,092,124/SDS_GEN_CA/EN)

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 4/10
(30,092,124/SDS_GEN_CA/EN)

Use personal protective clothing. Breathing protection required.

Can release flammable vapours. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

1-methoxypropan-2-ol	OSHA PEL	STEL value 150 ppm 540 mg/m ³ ; TWA value 100 ppm 360 mg/m ³ ;
	ACGIH TLV	STEL value 100 ppm ; TWA value 50 ppm ;

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: solution, viscous

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 5/10
(30,092,124/SDS_GEN_CA/EN)

Odour:	aromatic	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	yellow to brownish	
pH value:	not determined	
Melting point:	not applicable	
Boiling point:	120.1 °C	
	Information applies to the solvent.	
Flash point:	40 °C	(DIN 51755)
Flammability:	Flammable.	
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	400 °C	(DIN 51794)
Vapour pressure:	10 mbar (25 °C)	
Density:	1.066 g/cm ³ (20 °C)	
Relative density:	No data available.	
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	> 350 °C	
Viscosity, dynamic:	7,400 mPa.s (20 °C)	
Solubility in water:	immiscible	
Evaporation rate:	not determined	

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

The product is chemically stable.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 6/10
(30,092,124/SDS_GEN_CA/EN)

Thermal decomposition:
> 350 °C

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg (OECD Guideline 401)

No mortality was observed. The data on toxicology refer to the active ingredient.

Inhalation

Type of value: LC50

Species: rat

Exposure time: 4 h

not determined

Dermal

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg (OECD Guideline 402)

No mortality was observed. The data on toxicology refer to the active ingredient.

Irritation / corrosion

Assessment of irritating effects: May cause slight irritation to the eyes. The statements are based on the properties of the individual components.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

The data on toxicology refer to the active ingredient.

Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

The data on toxicology refer to the active ingredient.

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 7/10
(30,092,124/SDS_GEN_CA/EN)

The data on toxicology refer to the active ingredient.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated inhalation of high doses. The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Genetic toxicity

Genetic toxicity in vitro: OECD Guideline 471 Ames-test negative
The data on toxicology refer to the active ingredient.

Carcinogenicity

Assessment of carcinogenicity: No data available.

Reproductive toxicity

Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at maternally toxic doses. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: The substance did not cause malformations in animal studies. When given in high doses fetotoxicity was observed. The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 (96 h) > 2.8 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1)

The ecological data given are those of the active ingredient. No effects at the highest test concentration. Tested above maximum solubility.

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Tested as a preparation.

Aquatic plants

EC50 (72 h) 0.2 mg/l, algae (OECD Guideline 201)

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 8/10
(30,092,124/SDS_GEN_CA/EN)

The ecological data given are those of the active ingredient. No toxic effects occur within the range of solubility.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 bacteria/EC50 (0.5 h): > 100 mg/l

The ecological data given are those of the active ingredient.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components.

Mobility in soil

Assessment transport between environmental compartments

No data available.

Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

WARNING: Empty containers may still contain hazardous residue.

14. Transport Information

Land transport

TDG

Hazard class: 3

Packing group: III

ID number: UN 3092

Hazard label: 3

Proper shipping name: 1-METHOXY-2-PROPANOL SOLUTION

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 9/10
(30,092,124/SDS_GEN_CA/EN)

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 3092
Hazard label: 3
Marine pollutant: NO
Proper shipping name: 1-METHOXY-2-PROPANOL SOLUTION

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 3092
Hazard label: 3
Proper shipping name: 1-METHOXY-2-PROPANOL SOLUTION

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

According to Controlled Products Regulations (CPR) (SOR/88-66)

WHMIS classification:

B3: Combustible Liquid

D2B: Materials Causing Other Toxic Effects - Toxic material



16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2016/03/30

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Safety Data Sheet

Tinuvin® 400

Revision date : 2016/03/30
Version: 4.0

Page: 10/10
(30,092,124/SDS_GEN_CA/EN)

END OF DATA SHEET