



We create chemistry

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11

Version: 6.0

Page: 1/11

(30306418/SDS\_GEN\_CA/EN)

### 1. Identification

#### Product identifier used on the label

**HB670 YELLOW OXIDE**

#### Recommended use of the chemical and restriction on use

Recommended use\*: Basecoat product

Recommended use\*: Paints, Coatings and Related Materials; for industrial use only

Unsuitable for use: Not intended for sale to or use by the general public.

\* 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.  
100 Milverton Drive  
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Chemical family: Coating

### 2. Hazards Identification

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

##### Classification of the product

|                   |          |                                   |
|-------------------|----------|-----------------------------------|
| Skin Corr./Irrit. | 2        | Skin corrosion/irritation         |
| Eye Dam./Irrit.   | 2A       | Serious eye damage/eye irritation |
| Skin Sens.        | 1        | Skin sensitization                |
| Flam. Liq.        | 3        | Flammable liquids                 |
| Acute Tox.        | 4 (oral) | Acute toxicity                    |

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 2/11  
(30306418/SDS\_GEN\_CA/EN)

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

|      |                                      |
|------|--------------------------------------|
| H226 | Flammable liquid and vapour.         |
| H302 | Harmful if swallowed.                |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |

Precautionary Statements (Prevention):

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P280 | Wear protective gloves, protective clothing and eye protection or face protection.             |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                                              |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P264 | Wash contaminated body parts thoroughly after handling.                                        |
| P242 | Use only non-sparking tools.                                                                   |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment.                            |
| P243 | Take action to prevent static discharges.                                                      |
| P233 | Keep container tightly closed.                                                                 |
| P240 | Ground and bond container and receiving equipment.                                             |
| P270 | Do not eat, drink or smoke when using this product.                                            |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                         |

Precautionary Statements (Response):

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P370 + P378        | In case of fire: Use water spray for extinction.                                                                                 |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |
| P330               | Rinse mouth                                                                                                                      |
| P301 + P312        | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.                                                       |
| P333 + P313        | If skin irritation or rash occurs: Get medical attention.                                                                        |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.                 |
| P337 + P313        | If eye irritation persists: Get medical attention.                                                                               |

Precautionary Statements (Storage):

|             |                                              |
|-------------|----------------------------------------------|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
|-------------|----------------------------------------------|

Precautionary Statements (Disposal):

|      |                                                                                   |
|------|-----------------------------------------------------------------------------------|
| P501 | Dispose of contents and container to hazardous or special waste collection point. |
|------|-----------------------------------------------------------------------------------|

### Hazards not otherwise classified

No applicable information available.

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 3/11  
(30306418/SDS\_GEN\_CA/EN)

### 3. Composition / Information on Ingredients

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

butan-2-ol

CAS Number: 78-92-2  
Content (W/W):  $\geq 10.0$  -  $< 15.0\%$   
Synonym: sek.-Butanol

2-dimethylaminoethanol

CAS Number: 108-01-0  
Content (W/W):  $\geq 0.3$  -  $< 1.0\%$   
Synonym: N,N-Dimethyl(2-hydroxyethyl)amine; 2(Dimethylamino)ethanol, Deanol

2-butoxyethanol

CAS Number: 111-76-2  
Content (W/W):  $\geq 25.0$  -  $< 50.0\%$   
Synonym: Butyl cellosolve

2,4,7,9-Tetramethyldec-5-yne-4,7-diol

CAS Number: 126-86-3  
Content (W/W):  $\geq 1.0$  -  $< 3.0\%$   
Synonym: 2,4,7,9-Tetramethyl-5-decyne-4,7-diol

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

##### If on skin:

If irritation develops, seek medical attention. Wash affected areas with water for at least 15 minutes.

##### If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

##### If swallowed:

Immediate medical attention required. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 4/11  
(30306418/SDS\_GEN\_CA/EN)

*Information on: butan-2-ol*

*Symptoms: Overexposure may cause: coma, coordination disorder, nausea, headache, dizziness*

*Information on: 2-dimethylaminoethanol*

*Symptoms: Overexposure may cause: dyspnea, restlessness, coughing, headache*

*Information on: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol*

*Symptoms: Overexposure may cause: corneal injury, severe pain, skin irritation, erythema, nausea, vomiting, dizziness, diarrhea, abdominal cramps*

-----

### 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:  
carbon dioxide, foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Vapors and/or decomposition products are irritant and/or toxic. If product is heated above decomposition temperature acrid smoke and fumes will be released.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Notify proper authorities. Do not flood burning material with water due to potential spreading of fire. Flash fire may occur. Run-off water from fire may cause pollution. Contain contaminated water/firefighting water. Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

---

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use antistatic tools. Extinguish sources of ignition nearby and downwind. Avoid prolonged inhalation. Wear suitable personal protective clothing and equipment. Ensure adequate ventilation.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11

Version: 6.0

Page: 5/11

(30306418/SDS\_GEN\_CA/EN)

Dike spillage. Spills should be contained, solidified, and placed in suitable containers for disposal. Place into appropriately labeled waste containers.

## 7. Handling and Storage

### Precautions for safe handling

Handle and open container with care. WARNING: Empty containers may still contain hazardous residue. Use static lines when mixing and transferring material. Do not puncture, drop, or slide containers. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Risk of explosion if heated under confinement. Use antistatic tools. Exhaust fans should be explosion proof. Avoid all sources of ignition: heat, sparks, open flame. Provide adequate ventilation to remove solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources. Sealed containers should be protected against heat as this results in pressure build-up.

### Conditions for safe storage, including any incompatibilities

Segregate from strong bases. Segregate from oxidizing agents. Segregate from incompatible substances. Segregate from strong acids.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Polyethyleneterephthalate (PET), Polypropylene (PP), Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed. Protect from direct sunlight.

Storage stability:

Consult local fire marshal for storage requirements.

Protect from temperatures above: 49 °C

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

|                 |            |                                                                    |
|-----------------|------------|--------------------------------------------------------------------|
| butan-2-ol      | ACGIH, US: | TWA value 100 ppm ;                                                |
|                 | OSHA Z1:   | PEL 150 ppm 450 mg/m3 ;                                            |
|                 | OSHA Z1A:  | TWA value 100 ppm 305 mg/m3 ;                                      |
| 2-butoxyethanol | ACGIH, US: | TWA value 20 ppm ;                                                 |
|                 | OSHA Z1:   | PEL 50 ppm 240 mg/m3 ;                                             |
|                 | OSHA Z1:   | Skin Designation ; The substance can be absorbed through the skin. |
|                 | OSHA Z1A:  | SKIN_FINAL ; The substance can be absorbed through the skin.       |
|                 | OSHA Z1A:  | TWA value 25 ppm 120 mg/m3 ;                                       |

### Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 6/11  
(30306418/SDS\_GEN\_CA/EN)

### Personal protective equipment

#### **Respiratory protection:**

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Particulate filters should be added during spray operations. Wear respiratory protection if ventilation is inadequate.

#### **Hand protection:**

Use appropriate chemically impervious gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

#### **Eye protection:**

Wear face shield if splashing hazard exists. Tightly fitting safety goggles (chemical goggles).

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

#### **General safety and hygiene measures:**

Work place should be equipped with a shower and an eye wash. Remove contaminated clothing. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Contact lenses should not be worn. Hands and/or face should be washed before breaks and at the end of the shift.

## 9. Physical and Chemical Properties

|                                                     |                                      |              |
|-----------------------------------------------------|--------------------------------------|--------------|
| Form:                                               | liquid                               |              |
| Odour:                                              | No data available.                   |              |
| Odour threshold:                                    | No applicable information available. |              |
| Colour:                                             | yellow                               |              |
| pH value:                                           | No applicable information available. |              |
| Melting point:                                      | No applicable information available. |              |
| Freezing point:                                     | No applicable information available. |              |
| Boiling range:                                      | No applicable information available. |              |
| Sublimation point:                                  | No applicable information available. |              |
| Flash point:                                        | 35 °C                                | (ISO 3679)   |
| Flammability:                                       | No applicable information available. |              |
| Lower explosion limit:                              | No applicable information available. |              |
| Upper explosion limit:                              | No applicable information available. |              |
| Autoignition:                                       | No applicable information available. |              |
| Vapour pressure:                                    | No applicable information available. |              |
| Density:                                            | 1.1959 g/cm <sup>3</sup><br>( 20 °C) | (calculated) |
| Relative density:                                   | 1.1960<br>( 20 °C)                   |              |
| Vapour density:                                     | No applicable information available. |              |
| Partitioning coefficient n-octanol/water (log Pow): | No applicable information available. |              |
| Thermal decomposition:                              | No applicable information available. |              |
| Viscosity, dynamic:                                 | No applicable information available. |              |
| Viscosity, kinematic:                               | 411.600 mm <sup>2</sup> /s           |              |
| Solubility in water:                                | No applicable information available. |              |
| Miscibility with water:                             | miscible                             |              |
| Solubility (quantitative):                          | No applicable information available. |              |
| Solubility (qualitative):                           | No applicable information available. |              |
| Molar mass:                                         | No applicable information available. |              |
| Evaporation rate:                                   | No applicable information available. |              |

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 7/11  
(30306418/SDS\_GEN\_CA/EN)

### 10. Stability and Reactivity

#### Reactivity

No applicable information available.

#### Chemical stability

The product is chemically stable.

#### Possibility of hazardous reactions

No applicable information available.

#### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

#### Incompatible materials

strong oxidizing agents, strong bases, strong acids

#### Hazardous decomposition products

Decomposition products:  
carbon dioxide, carbon monoxide

Thermal decomposition:  
No applicable information available.

### 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.

#### Primary routes of entry

Solvents are absorbed through the skin.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Of moderate toxicity after single ingestion.

##### *Information on: 2-dimethylaminoethanol*

*Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term inhalation.*

##### *Information on: 2-butoxyethanol*

*Assessment of acute toxicity: Of moderate toxicity after single ingestion. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard. The European Union (EU) has classified this substance as 'harmful' after inhalation. Virtually nontoxic after a single skin contact. The European Union (EU) has classified this substance as 'harmful' after dermal exposure.*

#### Oral

Type of value: LD50

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11

Version: 6.0

Page: 8/11  
(30306418/SDS\_GEN\_CA/EN)

Species: guinea pig  
Value: 1,300.000000 mg/kg

### Inhalation

Type of value: LC50  
Species: rat  
Value: >= 25.00000 mg/l

### Dermal

Type of value: LD50  
Species: rat  
Value: > 2,000.000000 mg/kg

### Assessment other acute effects

No applicable information available.

### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

#### *Information on: butan-2-ol*

*Assessment of irritating effects: Irritating to eyes. Not irritating to the skin.*

#### *Information on: 2-dimethylaminoethanol*

*Assessment of irritating effects: Corrosive! Damages skin and eyes.*

#### *Information on: 2-butoxyethanol*

*Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.*

#### *Information on: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol*

*Assessment of irritating effects: Not irritating to the skin. May cause severe damage to the eyes.*

### Sensitization

#### *Information on: 2,4,7,9-Tetramethyldec-5-yne-4,7-diol*

*Assessment of sensitization:*

*Caused skin sensitization in animal studies.*

### Aspiration Hazard

No applicable information available.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: 2-dimethylaminoethanol*

*Assessment of repeated dose toxicity: The substance may cause damage to the central nervous system after repeated ingestion of high doses. The results are preliminary and do not provide a complete understanding of the effect observed. After repeated administration the prominent effect is the induction of corrosion.*

*The substance may cause damage to the central nervous system after repeated ingestion of high doses. The results are preliminary and do not provide a complete understanding of the effect observed.*

#### *Information on: 2-butoxyethanol*



# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 9/11  
(30306418/SDS\_GEN\_CA/EN)

*Assessment of repeated dose toxicity: Damages blood cells. Due to the species specific mode of action, the effects are not expected to occur in humans.*

-----

### Carcinogenicity

Assessment of carcinogenicity: Contains a suspect carcinogen.

*Information on: 2-dimethylaminoethanol*

*Assessment of carcinogenicity: In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was not observed. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.*

*Information on: 2-butoxyethanol*

*Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. A clear indication of an increased risk of cancer in humans has so far not been shown. IARC Group 3 (not classifiable as to human carcinogenicity).*

-----

### Reproductive toxicity

*Information on: 2-dimethylaminoethanol*

*Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect. The results were determined in a Screening test. On the basis of currently available information, a final assessment is not possible.*

-----

### Teratogenicity

*Information on: butan-2-ol*

*Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.*

*Information on: 2-dimethylaminoethanol*

*Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.*

-----

---

## 12. Ecological Information

No applicable information available.

---

## 13. Disposal considerations

### **Waste disposal of substance:**

Do not incinerate closed containers. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Do not discharge into drains/surface waters/groundwater.

Must be disposed of or incinerated in accordance with local regulations.

### **Container disposal:**

Do not reuse containers without commercial reconditioning. WARNING: Empty containers may still contain hazardous residue.

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 10/11  
(30306418/SDS\_GEN\_CA/EN)

### 14. Transport Information

#### Land transport

TDG

Hazard class: 3  
Packing group: III  
ID number: UN 1263  
Hazard label: 3  
Proper shipping name: PAINT

#### Sea transport

IMDG

Hazard class: 3  
Packing group: III  
ID number: UN 1263  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: PAINT

#### Air transport

IATA/ICAO

Hazard class: 3  
Packing group: III  
ID number: UN 1263  
Hazard label: 3  
Proper shipping name: PAINT

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Chemical DSL, CA released / listed

##### NFPA Hazard codes:

Health: 2 Fire: 3 Reactivity: 0 Special:

### 16. Other Information

#### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2021/05/11

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

# Safety Data Sheet

## HB670 YELLOW OXIDE

Revision date : 2021/05/11  
Version: 6.0

Page: 11/11  
(30306418/SDS\_GEN\_CA/EN)

operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET