

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Trade name: *Optima 340*

UFI: HGFJ-C0HP-N00S-5J9V

### 1.2 Relevant identified uses of the substance or mixture, and uses advised against:

No further relevant information available.

**Relevant identified uses of the substance or mixture:** Concrete Admixtures**Identified uses advised against:** No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet:

**Manufacturer/supplier:**

CHRYSO UK Ltd.  
9 Brunel Close, Drayton Fields Industrial Estate.  
Daventry, Northamptonshire. NN11 8RB UK

Tel : +44 (0)1327 707976

**Further information obtainable from:** uk.msds@chryso.com

### 1.4 Emergency telephone number:

For Chemical Emergency: (Spill, Leak, Fire, Exposure or Accident) - Call CHEMTREC (Day/Night) on:

Within USA & Canada : 800-424-9300,  
Outside USA & Canada : +1 703-741-5970

National emergency telephone number: CHEMTREC UK +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008**

Skin Sens. 1 H317 May cause an allergic skin reaction.

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard-determining components of labelling:**

2-octyl-2H-isothiazol-3-one

**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 1)

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards:****Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:**

Mixture of substances listed below with non-hazardous additions.

For further information, please refer to the product technical data sheet.

**Dangerous components:**

CAS: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5 Reg.nr.: 01-2120768921-45-XXXX	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) Skin Sens. 1A, H317 EUH071 ATE: LD50 oral: 125 mg/kg LD50 dermal: 311 mg/kg Specific concentration limits: Skin Corr. 1B; H314: C ≥ 5 % Skin Irrit. 2; H315: 1 % ≤ C < 5 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 % Skin Sens. 1A; H317: C ≥ 0.0015 %	0-<0.05%
--	---	----------

**SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:** Get medical advice/attention if you feel unwell.**After inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.**After skin contact:** Wash with plenty of soap and water.**After eye contact:** Rinse cautiously with water for several minutes.**After swallowing:**

Rinse mouth.

Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed:** May cause sensitisation by skin contact.**4.3 Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media:****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:** Wear self-contained respiratory protective device.

(Contd. on page 3)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 2)

**Additional information:** Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

### 6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

### 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.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

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

Store in a well-ventilated place. Keep container tightly closed.

Keep only in original packaging.

Use only outdoors or in a well-ventilated area.

**Information about fire - and explosion protection:** No special measures required.

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

#### STORAGE

**Information about storage in one common storage facility:** No special measures required.

#### Further information about storage conditions:

Protect from frost.

Store in a dry place.

Keep cool.

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** Based on the lists valid at the date of SDS creation.

### 8.2 Exposure controls:

**Appropriate engineering controls** No further data; see section 7.

**Individual protection measures, such as personal protective equipment**

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

#### Respiratory protection:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 3)

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

**Hand protection** Protective gloves.

**Material of gloves:** PVC gloves

**Penetration time of glove material:**

The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**



Safety glasses with side shield protection.

**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### GENERAL INFORMATION

Physical state	Liquid.
Colour:	Brown.
Odour:	Characteristic.
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	Not applicable.
Flammability Limits :	
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>100 °C
Method:	
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH at 20 °C	4
VISCOSITY	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	>1 g/cm <sup>3</sup>
Vapour density:	Not determined.
Particle characteristics	Not applicable.

### 9.2 Other information:

Appearance:	
Form:	Liquid.
Important information on protection of health and environment, and on safety:	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in conditions:-	
Evaporation rate:	Not determined.
Molecular weight	Not determined.

(Contd. on page 5)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 4)

**Information with regard to physical hazard classes**

<b>Explosives</b>	Not applicable.
<b>Flammable gases</b>	Not classified.
<b>Aerosols</b>	Not classified.
<b>Oxidising gases</b>	Not classified.
<b>Gases under pressure</b>	Not classified.
<b>Flammable liquids</b>	Not classified.
<b>Flammable solids</b>	Not classified.
<b>Self-reactive substances and mixtures</b>	Not classified.
<b>Pyrophoric liquids</b>	Not classified.
<b>Pyrophoric solids</b>	Not classified.
<b>Self-heating substances and mixtures</b>	Not classified.
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not classified.
<b>Oxidising liquids</b>	Not classified.
<b>Oxidising solids</b>	Not classified.
<b>Organic peroxides</b>	Not classified.
<b>Corrosive to metals</b>	Not classified.
<b>Desensitised explosives</b>	Not classified.

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

Stable under normal conditions.

No further relevant information available.

**10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

No further relevant information available.

**10.4 Conditions to avoid:** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>).**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****ACUTE TOXICITY** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****26530-20-1 2-octyl-2H-isothiazol-3-one**

Oral	LD50	125 mg/kg (ATE)
		125 mg/kg (rat)
Dermal	LD50	311 mg/kg (ATE)
	LD50	311 mg/kg (rabbit)
Inhalative	LC50, 4h	2 mg/l (rat)
	LC50, 96h	mg/l (fish)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** May cause an allergic skin reaction.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

(Contd. on page 6)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 5)

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity:

#### AQUATIC TOXICITY

##### 26530-20-1 2-octyl-2H-isothiazol-3-one

EC20, 0.5h 10.4 mg/l (activated sludge) (TTC-Test (8901 macherey-nagel))

EC20, 3h 7.3 mg/l (activated sludge) (OECD 209)

EC50, 48h 0.32 mg/l (daphnia magna) (Noack 1998a)

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects:

#### ADDITIONAL ECOLOGICAL INFORMATION

**General notes:** Not known to be hazardous to water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

#### Recommendation:



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue:

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 99	wastes not otherwise specified

#### UNCLEANED PACKAGING

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

GB  
(Contd. on page 7)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

Trade name: *Optima 340*

(Contd. of page 6)

**SECTION 14: Transport information**

**14.1 UN number or ID number**  
ADR, IMDG, IATA Not Regulated

**14.2 UN proper shipping name**  
ADR, IMDG, IATA Not Regulated

**14.3 Transport hazard class(es)**  
ADR, ADN, IMDG, IATA  
Class Not Regulated

**14.4 Packing group**  
ADR, IMDG, IATA Not Regulated

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user:** Not applicable.

**14.7 Maritime transport in bulk according to  
IMO instruments** Not Regulated

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

See Section 2 for hazard identification.

**Poisons Act****Regulated explosives precursors**

None of the ingredients is listed.

**Regulated poisons**

None of the ingredients is listed.

**Reportable explosives precursors**

None of the ingredients is listed.

**Reportable poisons**

None of the ingredients is listed.

**Directive 2012/18/EU**

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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

(Contd. on page 8)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing Date: 12.03.2024

Version Number: 1.0

Revision Date: 12.03.2024

**Trade name: *Optima 340***

(Contd. of page 7)

**SECTION 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.

**Relevant phrases:**

H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

**Department issuing SDS:**

Product Stewardship Department  
GCP Applied Technologies (UK) Limited  
487/488 Ipswich Road,  
Slough, Berkshire  
SL1 4EP

Tel: +44 (0)1753 490 000

**The first date of preparation:** 12.03.2024**Number of revision times and the latest revision date:** 1.0 / 12.03.2024

GB