



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

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

**1.1 Product Identifier Trade name: CRYSTAL PROTECT LTD**

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

No further relevant information available.

Application of substance/the preparation: Coatings

**1.3 Details of the supplier of the safety sheet (Supplier and Manufacturer):**

CRYSTAL PROTECT LTD  
20-22 WENLOCK ROAD  
LONDON  
N1 7GU

**1.4 Emergency telephone number: TBC**

### SECTION 2: Hazards Identification

**2.1 Classification of the substance or mixture.**

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



GHS08 Health Hazard

Asp Tox 1 H304 May be fatal if swallowed or enters airways

**Information concerning particular hazards for human and environment:**

At long or repeated contact with skin it may cause Dermatitis due to degreasing effect of the solvent.

**Classification system:** The classification is based on the Regulation (EC) 1272/2008 including its amendments and company information.

**2.2 Label Elements**

**Label according to regulation (EC) No 1272/2008.** The substance is classified and labelled according to the CLP regulation.

**Hazard Pictograms**



GHS08

**Signal word:** Danger

**Hazard statement:** H304 May be fatal if swallowed or enters airways

**Precautionary statements:**

P280 Wear protective gloves

P301+P310 If swallowed: Immediately call a Poison Centre or Doctor



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

P331 Do not induce vomiting

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

**Additional Information:** EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other Hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable due to data

**vPvB:** Not applicable due to data

## SECTION 3: Composition /Information on Ingredients

### 3.1 Chemical characterisation: Substances

**Ingredients:** 93% Ethanol, 4% Deionised Water SiO<sub>2</sub> particles.

## SECTION 4: First aid Measures

### 4.1 Description of first aid measures

**General Information:** First aid personnel should pay attention to their own safety. Remove affected persons from danger area and lay them down. If symptoms persist or in case of doubt, seek medical advice.

**After Inhalation:** Supply fresh air, consult doctor in case of pain. Do not use mouth to mouth OR nose to mouth resuscitation. Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops provide artificial respiration. Call a doctor. In case of unconsciousness, place person on their side in a stable position for transportation.

**After skin contact:** Wash with water and soap. If symptoms persist call a doctor.

**After eye contact:** Rinse eyes with open eye lids for 10-15 minutes with water. If symptoms persist consult a doctor.

**After swallowing:** Do not induce vomiting call a doctor immediately. If vomiting occurs spontaneously – hold the head of the person low with the body in a prone position in order to avoid vomit getting in the air tube (danger of aspiration)

### 4.2 Most important symptoms and effects – both acute and delayed:

Headache, dizziness, tiredness, nausea, vomiting



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

After inhalation: depression of the central nervous system and narcotic effect.

**Danger:** If swallowed or in case of vomiting, danger of entering the lungs. Aspiration may cause damage to the respiratory tract or lungs. Danger of Pneumonia. Risk of Pulmonary edema.

**4.3 Indication of any immediate medical attention and special treatment needed:** Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use the fire fighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents:** high volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can be released:

Vapours are heavier than air

Vapours spread on the ground to a distant ignition source and flash back.

Product floats on water.

Explosible air / vapour mixtures

Carbon monoxide and carbon dioxide

In traces: Toxic pyrolyzates

#### 5.3 Advice for Firefighters

**Protective equipment:** Wear self-contained respiratory protective device and wear fully protective suit

**Additional Information:** Cool endangered receptacles with water spray, Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately – it must not enter the sewage system.

### SECTION 6: Accidental release measures

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

Wear protective clothing

Ensure adequate ventilation

Avoid contact with eyes and skin

Do not breathe aerosol or vapours

Particular danger of slipping on leaked or spilled product

#### 6.2 Environmental precautions:

## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

Do not allow product to reach sewage system or any water course

Do not allow to penetrate the ground or soil

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

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)

Dam up larger quantities and pump into containers

Ensure adequate ventilation

Make sure to recycle or dispose of in suitable receptacles

### 6.4 Reference to other sections

See section 7 for safe handling

See section 8 for information on personal protective equipment

See section 13 for disposal information

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace

Prevent formation of aerosols

Do not breathe aerosols or vapour

Processing temperature <46 degrees Celsius

### Information and about protection against explosions and fires:



Keep ignition sources away – Do no smoke

Vapours may form explosive mixtures in the air

Observe the national regulations for storage of flammable liquids

Observe the general rules of industrial fire protection

### 7.2 Conditions for safe storage including any incompatibilities

#### Requirements to be met by store room & receptacles:

Store cool and dry in well ventilated area

Provide solvent resistant sealed floor

Information about storage in one common storage facility:

Store away from food stuffs

Store away from feed

Store away from oxidising agents



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

Refer to national regulations for storing hazardous chemicals

### Further information about storage conditions:

Keep receptacle tightly sealed

Protect from heat and direct sunlight

**Storage class:** 10 combustible liquids

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

## SECTION 8: Exposure controls/personal protection

### Additional information about design of technical systems:

Mechanical ventilation/exhaustion is strongly recommended

No further data – see section 7

### 8.1 Control Parameters

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

TRGS 900. AGW

600mg/m<sup>3</sup>, (2(11))

**Additional information:** The lists that were valid during the creation were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment (General protective and hygiene measures):

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

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work

After skin contact, cleanser skin thoroughly

#### Breathing equipment:

In case of unintentional release of substance, exceeding the occupational exposure limit value: short term filter device – Filter A (colour code: brown)

#### Protection of hands:

Chemical resistant gloves (EN 374) Solvent resistant gloves

The glove material has to be impermeable and resistant to the product

Due to missing tests no recommendation to the glove material can be given for the product

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



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

### Material of gloves:

Nitrile rubber, NBR

The selection of suitable rubber gloves does not only depend on the material but also on further marks of quality and varies from one manufacturer to the next

### Penetration time of glove material:

>480min nitrile rubber (0.45mm)

The exact penetration time has to be found of by the manufacturer of the gloves and be observed.

The above mention times are based on reference values as per EN 374. Under practical conditions (33 degrees celsius - taking into account the body temperature) the maximum wearing time is to be limited to one third.

**Eye protection:** Tightly sealed goggles

**Body protection:** Flame retarding, antistatic protective clothing

## SECTION 9: Physical and Chemical properties

### 9.1 Information on basis physical and chemical properties

#### Appearance:

**Form:** Liquid  
**Colour:** Colourless

**Odour:** Characteristic  
**Odour threshold:** Not determined

**PH-Value:** Not determined

#### Change in condition:

**Melting point/range:** Not determined  
**Boiling point/range:** 175-210 degree Celsius

**Flash point:** >61 degrees Celsius

**Flammability (solid/gas):** Not applicable

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Self ignition temperature:** >200 degrees Celsius

**Danger of explosion:** Product does not present explosion hazard. In use, may form flammable/explosive vapour air mixture

#### Explosion limits:

**Lower:** 7% volume  
**Upper:** 0.5% volume

**Oxidising properties:** Not determined

**Vapour pressure at 25 degrees C:** -0.6hPa

**Density at 15 degrees Celsius:** 0.77-0,815 g/cm<sup>3</sup>

**Relative density:** Not determined



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

<b>Vapour density:</b>	Not determined
<b>Evaporation rate:</b>	Not determined
<b>Solubility in/ Miscibility with:</b>	
<b>Water:</b>	Not miscible or difficult to mix
<b>Partition coefficient:</b>	Not determined
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined
<b>Kinematic at 20 degrees C:</b>	1,0-2,5 mm <sup>2</sup> /s
<b>9.2 Other information</b>	<b>No further relevant information</b>

### SECTION 10: Stability and Reactivity

**10.1 Reactivity:** No further relevant information available

#### 10.2 Chemical stability:

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications

**10.3 Possibility of hazardous reactions:** Forming of explosive air or vapour mixtures

#### 10.4 Conditions to avoid:

Protect from heat, Flames and Sparks

**10.5: Incompatible materials:** Strong oxidants

**10.6 Hazardous decomposition products:** No hazardous decomposition products if instructions for storage and handling are followed

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity:** Based on available data, the classification criteria are not met

#### LD/LC50 values that are relevant for classification:

Oral LD            50 >15000 mg/kg (rat) (OECD423)

RA MRD-77-10

Dermal            LD50 >3160 mg/kg (rabbit) (OECD 402)

Inhalative        LC50/4h >4951 mg/m<sup>3</sup> (rat) (OECD403)

RA MRD-00-586

**Primary irritant effect:**



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

**Skin corrosion/irritation:** Repeated exposure may cause skin dryness/cracking. Continuing or repeated contact with skin may cause dermatitis.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met

**Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met

**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:** May be fatal if swallowed or enters airway

## SECTION 12: Ecological Information

### 12.2 Toxicity

**Aqua Toxicity:** LC50/96h >1000 mg/l (Oncorhynchus mykiss) (OECD 203)

EC50/48h >1000 mg/l (Daphnia magna) (OECD 202)

**12.2 Persistence and degradability:** 80%/28d (OECD 301F)

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

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

### Additional ecological information:

Water hazard class 1 (German regulation) (Self assessment): Slightly hazardous to water. Classification according to German VwVWS dt. 17.05.1999 appendix 3

Do not allow undiluted product to large quantities of it to reach ground water, water course or sewage system. Danger to drinking water is possible if large quantities leak into the ground or water course.

### 12.5 Results of PBT and vPvB assessment





## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

**PBT:** Not applicable due to data

**vPvB:** Not applicable due to data

**12.6 Other adverse effects:** No further relevant information available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal according to instructions of local authorities.

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European waste catalogue based on the identification of the waste generating source.

#### European Waste Catalogue:

80 00 00 WASTES FROM THE MANUFACTURER, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINT, VARNISHES AND VIRTEOUS ENAMELS) ADHESIVE, SEALANTS AND PRINTING INKS.

08 02 00 Wastes from MFSU or other coatings (including ceramic)

08 02 99 Wastes not otherwise specified

**Uncleaned packaging recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN – Number

ADR, AND, IMDG, IATA Void

#### 14.2 UN proper shipping name

ADR, AND, IMDG, IATA Void

#### 14.3 Transport hazard class (es)

ADR, AND, IMDG, IATA Void

#### 14.4 Packaging group

ADR, IMDG, IATA Void

#### 14.5 Environmental hazards

Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to AnnexII of Marpol and the IBC Code

Not applicable

**Additional Information:** Not dangerous according to the above regulations



## Safety Data Sheet

According to 1907/2006/EC Article 31 Version 1.00

UN "Model Regulation":

Void

Department issuing MSDS:

Crystal Protect Ltd

20-22 Wenlock Road

London

N1 7GU

### SECTION 15: Regulatory Information

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

National regulations

**Water hazard class:** Water hazard class 1 (self-assessment): slightly hazardous for water

**Further information:** Version/s is/are not available in this language

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

### SECTION 16: Other Information

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

#### Abbreviations and acronyms

ADR – European Agreement concerning the International carriage of Dangerous Goods by Road)

RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG – International Maritime for Dangerous Goods

DOT – US department of transportation

IATA – International Air Transport Association

GHS – Globally Harmonised System of Classification and Labelling of Chemicals

CAS – Chemical Abstracts Service



### **Safety Data Sheet**

According to 1907/2006/EC Article 31 Version 1.00

MAL- Code- Regulation for labelling concerning inhalation hazards

LC50 – Lethal concentration, 50 percent

LD50 – Lethal dose, 50 percent

PBT – Persistent, Bioaccumulative and Toxic

vPvB – very Persistent and very Bioaccumulative

Asp Tox 1 – Aspiration hazard – Hazard category 1

**Sources:** MSDS of the manufacturer

IUCLID dossier from ECHA