

# SAFETY DATA SHEET CRYSTAL

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

# 1.1. Product identifier

Product name CRYSTAL

Product number R060 EV

Internal identification Livestock

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

Identified uses Alkaline & Chlorine based Powdered Cleaner for milk pipelines and parlours.

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

Supplier

**Evans Vanodine International** 

Brierley Road Walton Summit

Preston. UK. PR5 8AH Tel: 01772 322 200 Fax: 01772 626 000

qclab@evansvanodine.co.uk

# 1.4. Emergency telephone number

Emergency telephone New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri. (Also available

24/7 from our website www.evansvanodine.co.uk) Technical Advice - 8.30am to 4.45pm -

01772 318 818 - Mon to Fri

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

**Environmental hazards** Aquatic Chronic 2 - H411

### 2.2. Label elements

# Pictogram







Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

# **CRYSTAL**

**Precautionary statements** P102 Keep out of reach of children.

P260 Do not breathe dust.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P235+P410 Keep cool. Protect from sunlight.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/ attention.

P402+P404 Store in a dry place. Store in a closed container.

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

Supplemental label information

EUH031 Contact with acids liberates toxic gas.

Contains SODIUM HYDROXIDE, TROCLOSENE SODIUM, DIHYDRATE

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

SODIUM HYDROXIDE 30-60%

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-

2119457892-27-xxxx

Spec Conc Limits :- Skin Corr. 1A (H314) >= 5 %, Skin Corr. 1B (H314) >=2% <5 %, Skin Irrit. 2 (H315) >=0.5%<2%, Eye

Irrit. 2 (H319) >=0.5% <2%

Classification

Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318

SODIUM CARBONATE 25-30%

CAS number: 497-19-8 EC number: 207-838-8

Classification

Eye Irrit. 2 - H319

# TROCLOSENE SODIUM, DIHYDRATE

10-15%

Classification

Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

### **CRYSTAL**

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** Available Chlorine 6% minimum.

# SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** Do not induce vomiting. Give plenty of water to drink. Rinse mouth thoroughly with water. Get

medical attention immediately.

Skin contact Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Get medical attention immediately. Continue to rinse.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** Irritation of nose, throat and airway.

**Ingestion** May cause chemical burns in mouth and throat.

Skin contact Burning pain and severe corrosive skin damage. May cause serious chemical burns to the

skin.

Eye contact Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue

damage.

# 4.3. Indication of any immediate medical attention and special treatment needed

# SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

# 5.2. Special hazards arising from the substance or mixture

**Specific hazards**Thermal decomposition or combustion products may include the following substances:

Irritating gases or vapours.

#### 5.3. Advice for firefighters

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing, gloves, eye and face protection. For personal protection, see

Section 8. Avoid inhalation of dust.

# 6.2. Environmental precautions

**Environmental precautions** This product is dangerous for the environment:

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

Methods for cleaning up Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and

absorb spillage with sand, earth or other non-combustible material. Collect and place in

suitable waste disposal containers and seal securely.

# **CRYSTAL**

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Wear suitable protective clothing, gloves and eye/face protection. Avoid inhalation of dust.

Never add water directly to this product as it may cause a vigorous reaction or boiling. Always

dilute by carefully pouring the product into water.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** See Product Information Sheet & Label for detailed use of this product.

### SECTION 8: Exposure Controls/personal protection

## 8.1. Control parameters

# Occupational exposure limits

### **SODIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### **SODIUM CARBONATE**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

## 8.2. Exposure controls

# Protective equipment





Appropriate engineering

controls

Not relevant.

**Eye/face protection** The following protection should be worn: Chemical splash goggles or face shield.

**Hand protection** Wear protective gloves. Polyvinyl chloride (PVC).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection** Respiratory protection not required.

# SECTION 9: Physical and Chemical Properties

## 9.1. Information on basic physical and chemical properties

Appearance Powder.

Colour White.

Odour Faint Chlorine.

pH (diluted solution): 13.00 @ 100g / 40 Litres

Melting point Not applicable.

Soluble in water.

# **CRYSTAL**

Initial boiling point and rangeNot applicable.Flash pointNot applicable.Relative densityNot applicable.

9.2. Other information

Other information None.

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

Solubility(ies)

Reactivity Generates toxic gas in contact with acid. Reacts violently with strong acids. The product will

harden into a solid mass in contact with water and moisture.

10.2. Chemical stability

**Stability** No particular stability concerns.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

See sections 10.1,10.4 & 10.5

### 10.4. Conditions to avoid

Conditions to avoid The product will harden into a solid mass in contact with water and moisture.

10.5. Incompatible materials

Materials to avoid Strong acids. Aluminium, Tin, Zinc and their alloys.

### 10.6. Hazardous decomposition products

Hazardous decomposition

products

Toxic chlorine gas can be released if heated.

# SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects**We have not carried out any animal testing for this product. Any ATE figures quoted below are

from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 6,681.81818182

### SECTION 12: Ecological Information

**Ecotoxicity** Toxic to aquatic life with long lasting effects. Another potential hazard is from the alkalinity of

the product.

12.1. Toxicity

**Toxicity** We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data

specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

# 12.2. Persistence and degradability

# **CRYSTAL**

Persistence and degradability This product, at use dilutions, is readily broken down in biological effluent treatment plants.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

**Mobility** Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not known.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product

may be flushed with water to sewer. Larger volumes must be sent for disposal as special

waste. Rinse out empty container with water and consign to normal waste.

### SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID) 3262 UN No. (IMDG) 3262 UN No. (ICAO) 3262

5.1.1.to. (1.5.1.5)

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, solid and troclosene

sodium, dihydrate)

Proper shipping name (IMDG) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, solid and troclosene

sodium, dihydrate)

Proper shipping name (ICAO) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, solid and troclosene

sodium, dihydrate)

# 14.3. Transport hazard class(es)

ADR/RID class Class 8: Corrosive substances.

ADR/RID label 8

IMDG class Class 8: Corrosive substances.

ICAO class/division Class 8: Corrosive substances.

Transport labels



## 14.4. Packing group

ADR/RID packing group ||

### **CRYSTAL**

IMDG packing group II
ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



# 14.6. Special precautions for user

EmS F-A, S-B

Tunnel restriction code (E)

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** Not relevant. for a packaged product.

Annex II of MARPOL 73/78

and the IBC Code

### SECTION 15: Regulatory information

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

EU legislation Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No

2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006).

The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification,

labelling & packaging of substances & mixtures.

Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008

classification, labelling & packaging of substances & mixtures.

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

PBT: Persistent, Bioaccumulative and Toxic substance.

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

IMDG: International Maritime Dangerous Goods.

vPvB: Very Persistent and Very Bioaccumulative.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

GHS: Globally Harmonized System.

Spec Conc Limits = Specific Concentration Limits.

Classification abbreviations and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation

Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation

STOT SE = Specific target organ toxicity-single exposure

# **CRYSTAL**

Key literature references and

sources for data

 ${\it Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class-Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA-C\&L Inventory}$ 

database.

Classification procedures according to Regulation (EC)

1272/2008

Calculation Method.

Revision comments Slight change to Proper Shipping Name in Transport section (Changes made to sections 14 &

16)

Revision date 24/08/2018

Revision 9

SDS status The Hazard Statements listed below in this Section No 16 relate to the Raw Materials

(Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard

Statements relating to this Product see Section 2.

Hazard statements in full H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.