



SAFETY DATA SHEET

PRODUCT NAME

CRODA K

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name Croda K
Common Name Croda K
Recommended Use Fire Extinguishing Powder
Name of the Supplier Tyco Safety Products
Address 6 Portage Road
New Lynn
Auckland
New Zealand
Telephone Number (09) 8261700
Emergency Telephone '0800CHEMCALL' - 0800243622

2. HAZARD IDENTIFICATION

CLASSIFIED AS NON HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES (CLASSIFICATION) REGULATIONS 2001

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
Potassium Allophonate	26479-35-6	10-90%
Potassium Bicarbonate	298-14-6	90-10%
Sodium Bicarbonate	144-55-8	12-15%
Green Dye		<0.05%

4. FIRST AID MEASURES

Eye Contact Irrigate with fresh water for at least 10 minutes holding eyelids apart.
Skin Contact Wash off with plenty of water.
Inhalation Move to fresh air.
Ingestion Rinse mouth with water and give plenty of water to drink. If other symptoms persist seek medical advice and treat symptomatically.

5. FIRE FIGHTING MEASURES

Special Fire Fighting Procedure	No specific measures required as this product is a fire extinguishing medium.
Respiratory Protection	Wear suitable respiratory protection. Dust mask/respirator to reduce personal exposure below

Occupational Exposure Standard (OES).

Protective Gloves	Recommended
Eye Protection	Recommended
Other Protective Equipment	Wear overalls and adopt normal hygiene measures when using chemicals.

6. ACCIDENTAL RELEASE MEASURES

Accidental Released/ Spills	Clear up spillage and transfer to a container for recovery or disposal. Vacuum cleaning is recommended to minimize dust formation.
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7. HANDLING AND STORAGE

Precautions for safe handling	When handling this product use suitable containment methods to avoid generation of dust and local exhaust ventilation to limit personal exposure.
Other Precautions	Keep cool and dry in absence of vibration. Maintain good housekeeping practice.
Incompatibility	Does not apply

8. EXPOSURE CONTROLS

Exposure Limits: Total Dust: 5mg/m³ respirable dust

Personal Protective Equipment

Protective Gloves	Recommended
Eye Protection	Recommended
Other Protective Equipment	Wear overalls and adopt normal hygiene measures when using chemicals.
Respiratory Protection	Wear suitable respiratory protection. Dust mask/respirator to reduce personal exposure below Occupational Exposure Standard (OES).

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Appearance	Fine bright green powder
Odour	Odourless
pH	8.0 at 5% solution in water
Density	Settled apparent density 1000-1350 kg/m ³
Solubility	Soluble in water but silicon additive delays dissolution
Flammability	Non-flammable
Decomposition	> 120°C in flame zone

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: None

Hazardous Decomposition Product: Reacts with acids to liberate Carbon Dioxide. If powder becomes damp or hard it is not suitable for fire-fighting purposes.

Hazardous Polymerization: May Occur

Conditions to avoid: None

11. TOXICOLOGICAL INFORMATION

Data on acute toxicity: Oral, rat, LD50

Potassium bicarbonate: Very low toxicity, a general food additive.

Sodium bicarbonate: 4220mg/kg

Routes of Entry: Eye Contact: Dust may cause discomfort or irritation.

Skin Contact: Mild irritant

Inhalation: Long term inhalation of dust may impair lung function.

Ingestion: Practically non-harmful.

12. ECOLOGICAL INFORMATION

Because product is soluble in water it could raise the pH if washed into watercourses. In the event of large spillage, advise appropriate authority.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Export the substance from New Zealand as waste ; or Treat the substance so that it is no longer a hazardous substance ; or Discharge the substance into the environment so that, after reasonable mixing, the concentration of the substance in an environmental medium does not exceed any relevant tolerable exposure limit and/or environmental exposure limit set for the substance or any of its components.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005
NZS 5433:2007, UN, IMDG OR IATA**

Shipping Name None Allocated

UN No. None Allocated

Pkg Group None Allocated

DG Class

None Allocated

Hazchem Code

None Allocated

Subsidiary Risk(s) None Allocated

EPG

None Allocated

15. REGULATORY INFORMATION

Approval Code: HSR002573

Group Name: Fire Fighting Chemicals Group Standard 2006

HSNO Controls: Refer to the ERMA website for more information: www.ermanz.govt.nz

16. OTHER INFORMATION

Additional Information**ABBREVIATIONS:**

ADB - Air-Dry Basis. BEI - Biological Exposure Indice(s) CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds. CNS - Central Nervous System. EINECS - European INventory of Existing Commercial chemical Substances. IARC - International Agency for Research on Cancer. M - moles per litre, a unit of concentration. mg/m³ - Milligrams per cubic metre. NOS - Not Otherwise Specified. NTP - National Toxicology Program. OSHA - Occupational Safety and Health Administration. pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). ppm - Parts Per Million. RTECS - Registry of Toxic Effects of Chemical Substances. TWA/ES - Time Weighted Average or Exposure Standard.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this SDS report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by the retailer of the product and serves as the retailers Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to the retailer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the retailer.

While Tyco has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Tyco accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Date of Preparation: 31 August 2008