

# ASHLAND.

## SAFETY DATA SHEET

Page: 1

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)
Product name	45030A2 CRUMB	
Product code	807394	

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance: liquid, Semisolid, amber

CAUTION! MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE EYE IRRITATION.

#### Potential Health Effects

##### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

##### **Eye contact**

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

##### **Skin contact**

Unlikely to cause skin irritation or injury. May cause allergic skin reaction.

##### **Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

##### **Inhalation**

Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

##### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions)

##### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passages of the lungs resulting in difficult breathing, tightness in the chest, coughing and wheezing) in

# ASHLAND

## SAFETY DATA SHEET

Page: 2

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.

### Target Organs

No data

### Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

### Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

### Other information

Prolonged exposure to smoke or fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing, or breathing difficulty. Repeated exposure may lead to respiratory sensitization (asthma) in susceptible individuals.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
LIMESTONE	1317-65-3	>=10-<15%
ROSIN, POTASSIUM SALT	61790-50-9	>=5-<10%
TRIS(NONYLPHENYL) PHOSPHITE	26523-78-4	>=1.5-<5%

## 4. FIRST AID MEASURES

### Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

### Skin

No data

### Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

### Inhalation

# ASHLAND.

## SAFETY DATA SHEET

Page: 3

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

### Notes to physician

**Hazards:** No information available.

**Treatment:** No information available.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

### Hazardous combustion products

calcium oxide, carbon dioxide and carbon monoxide, Oxides of phosphorus

### Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### NFPA Flammable and Combustible Liquids Classification

not applicable

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

### Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

### Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### Other information

Comply with all applicable federal, state, and local regulations.

## 7. HANDLING AND STORAGE

### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

# ASHLAND

## SAFETY DATA SHEET

Page: 4

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

### Storage

Store in a cool, dry, ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

LIMESTONE		1317-65-3	
NIOSH	Recommended exposure limit (REL):	10 mg/m3	Total
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Respirable.
OSHA Z1	Permissible exposure limit	5 mg/m3	Respirable fraction.
OSHA Z1	Permissible exposure limit	15 mg/m3	Total dust.

### General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

### Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

### Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).  
Discard gloves that show tears, pinholes, or signs of wear.  
Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

### Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

# ASHLAND

## SAFETY DATA SHEET

Page: 5

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	Semisolid
Colour	amber
Odour	characteristic
Flash point	not applicable
Density	0.91 - 0.96 g/cm3

### 10. STABILITY AND REACTIVITY

#### Stability

Stable.

#### Conditions to avoid

excessive heat, Heat, flames and sparks., Exposure to sunlight.

#### Incompatible products

Acids, ammonium salts, aluminum salts, Fluorine, Oxidizing agents

#### Hazardous decomposition products

calcium oxide, carbon dioxide and carbon monoxide, Oxides of phosphorus

#### Hazardous reactions

Product will not undergo hazardous polymerization.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin absorption  
Skin contact  
Eye Contact  
Ingestion

#### Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

# ASHLAND.

## SAFETY DATA SHEET

Page: 6

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitisation : no data available

### Components:

#### **LIMESTONE:**

Acute oral toxicity : LD 50 Rat: 6,450 mg/kg

#### **ROSIN, POTASSIUM SALT:**

Acute oral toxicity : LD 50 Rat: > 2,000 mg/kg  
Based on similar product.

Acute dermal toxicity : LD 50 Rat: > 2,000 mg/kg  
Based on similar product.

Respiratory or skin sensitisation : Species: mouse  
Classification: Did not cause sensitisation on laboratory animals.  
Result: Did not cause sensitisation on laboratory animals.  
Method: Local lymph node assay

#### **TRIS(NONYLPHENYL) PHOSPHITE:**

Acute oral toxicity : LD 50 Rat: 9,800 mg/kg

Acute dermal toxicity : LD 50 Rat: > 2,000 mg/kg  
Method: OECD Test Guideline 402

Respiratory or skin sensitisation : May cause sensitisation of susceptible persons by skin contact.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

no data available

#### **Components:**

# ASHLAND.

## SAFETY DATA SHEET

Page: 7

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

### TRIS(NONYLPHENYL) PHOSPHITE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Method: static test  
Method: OECD Test Guideline 203  
No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 0.3 mg/l  
Exposure time: 48 h  
Test Method: static test  
Test substance: WAF

### Persistence and degradability

#### Product:

no data available

#### Components:

### ROSIN, POTASSIUM SALT:

Biodegradability : Biodegradation: 89.5 %  
Method: OECD Test Guideline 302B

### TRIS(NONYLPHENYL) PHOSPHITE:

Biodegradability : activated sludge  
Biodegradation: < 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

#### Product:

no data available

#### Components:

### ROSIN, POTASSIUM SALT:

Partition coefficient: n-octanol/water : log Pow: 3 - 7

### Mobility in soil

#### Product:

no data available

# ASHLAND

## SAFETY DATA SHEET

Page: 8

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

### Components:

no data available

### 13. DISPOSAL CONSIDERATIONS

#### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

### 14. TRANSPORT INFORMATION

#### REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	---------------	--------------------	---------------	------------------------------

#### U.S. DOT - ROAD

Not dangerous goods

#### U.S. DOT - RAIL

Not dangerous goods

#### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

#### TRANSPORT CANADA - ROAD

Not dangerous goods

#### TRANSPORT CANADA - RAIL

Not dangerous goods

#### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID



# ASHLAND.

## SAFETY DATA SHEET

Page: 9

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

### 15. REGULATORY INFORMATION

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### SARA Hazard Classification

#### SARA 311/312 Classification

Acute Health Hazard

#### SARA 313 Component(s)

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

	HMIS	NFPA
Health	2	2
Flammability	1	1
Physical hazards	0	
Instability		0
Specific Hazard	--	--

### 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current,

# ASHLAND.

## SAFETY DATA SHEET

Page: 10

Revision Date: 07/06/2013

Print Date: 8/6/2013

MSDS Number: R0718740

Version: 1.2

45030A2 CRUMB  
807394

applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System