



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Ongard® 2

Product Use Description: Flame retardants

Company: Chemtura Corporation  
199 Benson Road  
Middlebury, CT  
06749  
United States of America  
  
Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898  
  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department  
(US) +1 866-430-2775  
  
MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Flame retardants

### SECTION 2. HAZARDS IDENTIFICATION

Form	powder
Colour	white
Odour	odourless

#### GHS Classification

Combustible dust :  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxicity : Category 1

#### GHS Label element

Signal word : **Warning**



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

Hazard pictograms

:



Hazard statements

: May form combustible dust concentrations in air.  
H410 Very toxic to aquatic life with long lasting effects.

Other hazards

: None

Precautionary statements

: **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Self-ignitable

: No data available

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
magnesium oxide	1309-48-4	>= 50 - < 70 %
zinc oxide	1314-13-2	>= 30 - < 50 %

## SECTION 4. FIRST AID MEASURES

If inhaled

: Remove to fresh air.  
Get medical attention.

In case of skin contact

: Wash skin thoroughly with soap and water for at least 15 minutes.  
If skin irritation occurs: Get medical advice/ attention.



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed : If conscious, make the victim drink the following:  
Drink 1 or 2 glasses of water.  
Get medical attention immediately.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : All conventional media are suitable.
- Specific hazards during firefighting : Burning produces noxious and toxic fumes.  
Thermal decomposition can lead to release of irritating gases and vapours.
- Specific extinguishing methods : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Avoid release to the environment.
- Methods and materials for containment and cleaning up : Remove all sources of ignition. Sweep up or vacuum up spillage and collect in suitable container for disposal.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Use personal protective equipment as required.  
Avoid contact with skin, eyes and clothing.



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

Avoid breathing dust.  
Avoid creating dust.  
Use only in well-ventilated areas.

Conditions for safe storage : Keep in a dry, cool and well-ventilated place.  
Keep container tightly closed.  
Protect containers against damage.  
Protect from contamination.

Materials to avoid : Strong acids, Strong bases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
magnesium oxide	1309-48-4	TWA (Inhalable fraction)	10 mg/m3	ACGIH
		TWA (fume, total particulate)	15 mg/m3	OSHA Z-1
		TWA (Fume - total particulate)	10 mg/m3	OSHA P0
zinc oxide	1314-13-2	TWA (Respirable fraction)	2 mg/m3	ACGIH
		STEL (Respirable fraction)	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Dust)	5 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	NIOSH REL
		ST (Fumes)	10 mg/m3	NIOSH REL
		C (Dust)	15 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Fumes)	5 mg/m3	OSHA P0



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

		STEL (Fumes)	10 mg/m3	OSHA P0
--	--	-----------------	----------	---------

**Engineering measures** : Adequate general ventilation is recommended when handling to control airborne levels.  
Use local ventilation to keep levels below established threshold values.  
Refer to OSHA 29 CFR 1910.94 for ventilation guidelines.  
Use mechanical ventilation for general area control.

### Personal protective equipment

**Respiratory protection** : Wear a NIOSH/MSHA approved dust respirator if dusting occurs, or there is potential for airborne exposures to exceed established threshold values.  
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Hand protection**  
**Remarks** : Chemical resistant protective gloves

**Eye protection** : Safety glasses with side-shields  
or  
Safety goggles

**Skin and body protection** : impervious clothing

**Hygiene measures** : Wash thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before reuse.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : powder

**Color** : white

**Odor** : odourless

**Odour Threshold** : No data available

**pH** : Not applicable

:  
No data available

**Boiling point/boiling range** : Not applicable

**Evaporation rate** : No data available  
Not applicable

**Flash point** :  
Not applicable



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

Auto-flammability : No data available  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : Not applicable  
Relative vapour density : No data available  
Not applicable  
Relative density : 4.4 (25 °C)

### Solubility(ies)

Water solubility : No data available  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

### Viscosity

Viscosity, dynamic : Not applicable  
Viscosity, kinematic : Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.  
Chemical stability : No decomposition if stored normally.  
Possibility of hazardous reactions : Will not occur.  
Conditions to avoid : Contamination  
Incompatible materials : Strong acids  
Strong bases  
Hazardous decomposition products : Metal oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity  
zinc oxide (Component) : LD50: > 8,437 mg/kg  
Species: Rat



# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

Aspiration toxicity (Product) : No aspiration toxicity classification

Further information (Product) : As with all dusts, inhalation of air concentration levels above the PNOR may cause irritation and adverse lung effects.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to fish (Product) : Remarks:  
No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates (Product) : Remarks:  
No data is available on the product itself.

#### Elimination information (persistence and degradability)

Mobility (Product) : Remarks:  
No data available

Biodegradability (Product) : Result: No data available

#### Further information on ecology

##### Ecotoxicology Assessment

Results of PBT assessment (Product)

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information (Product) : Avoid release to the environment.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.



## SAFETY DATA SHEET

### Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

Do not re-use empty containers.

#### SECTION 14. TRANSPORT INFORMATION

##### DOT

UN number : 3077  
Description of the goods : Environmentally hazardous substances, solid, n.o.s.  
(zinc oxide)  
Class : 9  
Packing group : III  
Environmentally hazardous : yes  
zinc oxide

##### IATA

UN number : 3077  
Description of the goods : Environmentally hazardous substance, solid, n.o.s.  
(zinc oxide)  
Class : 9  
Packing group : III  
Environmentally hazardous : no

##### IMDG

UN number : 3077  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(zinc oxide)  
Class : 9  
Packing group : III  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Marine pollutant : yes  
zinc oxide

#### SECTION 15. REGULATORY INFORMATION

##### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA304 Reportable Quantity





# SAFETY DATA SHEET

## Ongard® 2

Version: 1.0

Revision Date: 03/31/2015

Print Date: 07/21/2015

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:  
zinc oxide 1314-13-2

**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.

**The components of this product are reported in the following inventories:**

<b>US.TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL.
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	On the inventory, or in compliance with the inventory
<b>ENCS</b>	On the inventory, or in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### Further information

#### Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.