# **Material Safety Data Sheet**



Date of issue 16 July 2015

Version 13

### Product and company identification

Product name : AMERLOCK 2 C CURE

Code : 00290609

**Supplier** : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272

Emergency telephone

<u>number</u>

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

**Technical Phone Number**: 888-977-4762

#### 2. Hazards identification

#### **Emergency overview**

: DANGER!

COMBUSTIBLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, DIGESTIVE TRACT, EYE AND SKIN BURNS. HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not swallow. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

#### Potential acute health effects

Inhalation

May be harmful if inhaled. Corrosive to the respiratory system. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

: May be harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Skin

Corrosive to the skin. Causes burns. Toxic in contact with skin. May cause an allergic skin reaction.

SKIII TEACIIO

Eyes : Corrosive to eyes. Causes burns.

#### Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

Medical conditions aggravated by overexposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS).

See toxicological information (Section 11)

Canada - Mexico Page: 1/8

Product name AMERLOCK 2 C CURE

#### 3. Composition/information on ingredients

<u>Name</u>	CAS number	% (w/w)
▼alc , not containing asbestiform fibres	14807-96-6	30 - 60
4-methylpentan-2-one	108-10-1	7 - 13
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids	68082-29-1	5 - 10
and triethylenetetramine		
benzyl alcohol	100-51-6	1 - 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
cyclohexanone	108-94-1	1 - 5
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	1 - 5
4-nonylphenol, branched	84852-15-3	1 - 5
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,	38294-64-3	1 - 5
3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
2-methylpropan-1-ol	78-83-1	1 - 5
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1	1 - 5
3,6-diazaoctanethylenediamin	112-24-3	0.1 - 1
bis[(dimethylamino)methyl]phenol	71074-89-0	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### 4 First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

: Check for and remove any contact lenses. Immediately flush eyes with running Eye contact water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

Skin contact Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is Inhalation

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Ingestion : If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

#### Fire-fighting measures 5.

Flammability of the product

: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Extinguishing media** 

Suitable

: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

> Canada - Mexico Page: 2/8

Product name AMERLOCK 2 C CURE

# 5. Fire-fighting measures

Hazardous combustion products

: Decomposition products may include the following materials: carbon oxides

nitrogen oxides halogenated compounds

halogenated compounds metal oxide/oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# 7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Canada - Mexico Page: 3/8

Product name AMERLOCK 2 C CURE

#### Handling and storage 7.

**Storage** 

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120°F / 49°C.

#### 8. **Exposure controls/personal protection**

Name	Result	ACGIH	Ontario	Mexico	PPG
Talc , not containing asbestiform fibres	TWA	2 mg/m³ R	2 mg/m³ R	2 mg/m³ R	Not established
				6 mg/m³	
				3 mg/m³ R	
4-methylpentan-2-one	TWA	20 ppm	50 ppm	50 ppm	Not established
	STEL	75 ppm	75 ppm	75 ppm	Not established
benzyl alcohol	TWA	Not established	Not established	Not established	10 ppm
	STEL	Not established	Not established	Not established	50 ppm
cyclohexanone	TWA	20 ppm S	20 ppm S	50 ppm S	Not established
	STEL	50 ppm S	50 ppm S	100 ppm S	Not established
2-methylpropan-1-ol	TWA	50 ppm	50 ppm	50 ppm	Not established
	STEL	Not established	• •	75 ppm	Not established
3,6-diazaoctanethylenediamin	TWA	Not established	0.5 ppm S	Not established	1 ppm S

#### Key to abbreviations

SR = Acceptable Maximum Peak = Respiratory sensitization **ACGIH** = American Conference of Governmental Industrial Hygienists. SS = Skin sensitization

**STEL** = Short term Exposure limit values = Ceiling Limit С F

= Fume TD = Total dust

**IPEL** = Internal Permissible Exposure Limit TLV = Threshold Limit Value = Time Weighted Average = Respirable TWA

= Potential skin absorption

#### Consult local authorities for acceptable exposure limits.

**Recommended monitoring** procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** 

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

> Canada - Mexico Page: 4/8

Product name AMERLOCK 2 C CURE

## 8. Exposure controls/personal protection

Personal protection

Eyes Hands

- : Chemical splash goggles and face shield.
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves Respiratory

- : nitrile, neoprene
- : By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: 39°C (102.2°F)

**Explosion limits** : Lower: 1.29%

Upper: 8.46%

**Material supports** 

combustion.

: Colorless.

Yes.

Odor : Amine-like. [Strong]
pH : Not available.

Boiling/condensation point : >37.78°C (>100°F)

**Melting/freezing point**: Not available.

Specific gravity : 1.36

Density ( lbs / gal ) : 11.35

Vapor pressure: Not available.Vapor density: Not available.

**Volatility** : 34% (v/v), 22.019% (w/w)

**Evaporation rate** : Not available.

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n- : Not available.

octanol/water

% Solid. (w/w) : 77.981

Canada - Mexico Page: 5/8

Date of issue 16 July 2015 Version 13

Product name AMERLOCK 2 C CURE

# 10. Stability and reactivity

**Stability** 

**Conditions to avoid** 

Materials to avoid

Stable under recommended storage and handling conditions (see Section 7).

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Reactive or incompatible with the following materials: acids, oxidizing materials, strong

alkalis

**Hazardous decomposition** 

Product code 00290609

products **Hazardous polymerization**  Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

: Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-methylpentan-2-one	LD50 Oral	Rat	2.08 g/kg	-
• •	LC50 Inhalation	Rat	32772 mg/m3	4 hours
	Vapor			
benzyl alcohol	LD50 Oral	Rat	1.23 g/kg	-
	LD50 Dermal	Rabbit	2000 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Dermal	Rabbit	1.28 g/kg	-
cyclohexanone	LD50 Oral	Rat	1.54 g/kg	-
	LD50 Dermal	Rabbit	0.948 g/kg	-
	LC50 Inhalation	Rat	8000 ppm	4 hours
4-nonylphenol, branched	LD50 Oral	Rat	0.58 g/kg	-
• •	LD50 Dermal	Rabbit	2.14 g/kg	-
2-methylpropan-1-ol	LD50 Oral	Rat	2460 mg/kg	-
	LD50 Dermal	Rabbit	2 g/kg	-
	LC50 Inhalation	Rat	6500 mg/m3	4 hours
	Vapor			
1,2-Benzenedicarboxylic acid, di-	LD50 Oral	Rat	>60000 mg/kg	-
C9-11-branched alkyl esters, C10-rich				
·	LD50 Dermal	Rabbit	16000 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Oral	Rat	2500 mg/kg	-
-	LD50 Dermal	Rabbit	805 mg/kg	-

**Conclusion/Summary Chronic toxicity** 

: Not available.

**Conclusion/Summary** 

: Not available.

**Defatting irritant** 

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Target organs** 

Contains material which causes damage to the following organs: blood, kidneys, liver, heart, brain, upper respiratory tract, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: lungs, the nervous system, the reproductive system, cardiovascular system, bones, eye, lens or cornea.

Carcinogenicity Carcinogenicity

: Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

#### **Classification**

Product/ingredient name	ACGIH	IARC	NTP
4-methylpentan-2-one	A3	2B	-
cyclohexanone	A3	3	-

Canada - Mexico Page: 6/8

Product name AMERLOCK 2 C CURE

### 11. Toxicological information

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be

a human carcinogen

Not listed or regulated as a carcinogen: -

**Teratogenicity** 

Reproductive toxicity

**Developmental effects** 

: Contains material which may cause developmental abnormalities, based on animal data.

Fertility effects

: Contains material which may impair male fertility, based on animal data. Contains

material which may impair female fertility, based on animal data.

# 12. Ecological information

**Environmental effects** 

: Water polluting material. May be harmful to the environment if released in large quantities.

## 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# 14. Transport information

	TDG	Mexico	IMDG
UN number	3469	3469	3469
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)
Packing group	III	III	III
Environmental hazards	Yes.	No.	Yes.
Marine pollutant substances	(Polyamide, 4-nonylphenol, branched)	Not applicable.	(4-nonylphenol, branched)

Canada - Mexico Page: 7/8

**Product name AMERLOCK 2 C CURE** 

## 14. Transport information

#### Additional information

TDG: The marine pollutant mark is not required when transported by road or rail.

Mexico : None identified.

**IMDG**: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

# 15. Regulatory information

Canada inventory ( DSL ) : At least one component is not listed in DSL but all such components are listed in NDSL.

Canada

WHMIS (Canada) : Class E: Corrosive liquid. Class B-3: Combustible liquid with a flash point between 37.

8°C (100°F) and 93.3°C (200°F). Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic).

Class D-2B: Material causing other toxic effects (Toxic).

**Mexico** 

Classification

Flammability: 2 Health: 3 Reactivity: 0

#### 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 3 \* Flammability: 2 Physical hazards: 0

(\*) - Chronic

effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 2 Instability: 0

Date of previous issue : 5/8/2015

Organization that prepared : EHS

the MSDS

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Canada - Mexico Page: 8/8