

AMERLOCK 400 AL RESIN

MSDS EU 01 / EN Version 1

Print Date 6/2/2010 Revision date 09-04-09

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : AMERLOCK 400 AL RESIN

Recommended use : coating

Company : PPG Coatings SPRL/BVBA

Noordersingel 23 B-2040 Borgerhout

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Telefax : +32 3 3606435

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2. HAZARDS IDENTIFICATION

Symbol(s):

Irritant

Dangerous for the environment

${\bf Hazar dous\ components:}$

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight \leq 700) 2,3-Epoxypropyl neodecanoate

R-phrase(s):

IRRITATING TO EYES AND SKIN.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

P-phrase(s):

Contains epoxy constituents. See information supplied by the manufacturer.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
2,3-Epoxypropyl neodecanoate	247-979-2	26761-45-5			N; R51/53 R43	>=10.00 - <25.00%
reaction product: bisphenol- A-(epichlorhydrin) epoxy resin (number average molecularweight ≤ 700)		25068-38-6	29th		Xi; R36/38 R43 N; R51, R53	>=50.00 - <75.00%
aluminium	231-072-3	7429-90-5	28th		F; R15 R10	>=10.00 - <25.00%

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Producer declares that for R-phrases not mentioned in chapters 3, the entire amount of hazardous substances is below limits. For components with an occupational threshold limit value see chapter 8.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

4. FIRST AID MEASURES

General advice : When symptoms persist or in all cases of doubt seek medical advice. Never

give anything by mouth to an unconscious person.

Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the

eyelids apart. Remove contact lenses. Seek medical advice.

Skin contact : Take off all contaminated clothing immediately. Wash skin thoroughly with

soap and water or use recognized skin cleanser. Do NOT use solvents or

thinners.

Inhalation : Remove to fresh air. Keep patient warm and at rest. If breathing is irregular

or stopped, administer artificial respiration. If unconscious place in recovery

position and seek medical advice.

Ingestion : If accidently swallowed obtain immediate medical attention. Keep at rest. Do

NOT induce vomiting.

Burns : If spills on clothing catch fire, wash with plenty of water. Remove loose

clothing. Do not remove clothing that has melted to the skin.Obtain medical

attention.

5. FIRE-FIGHTING MEASURES

 $Specific\ hazards\ during\ fire$

fighting

: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool

closed containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

Special protective equipment

for fire-fighters

Suitable extinguishing media

In the event of fire, wear self-contained breathing apparatus.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Keep containers and surroundings cool with water spray.

Extinguishing media which shall not be used for safety

reasons

Do NOT use water jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment. Ventilate the area. Refer to protective

measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can

accumulate in low areas. Remove all sources of ignition.

Environmental precautions : Try to prevent the material from entering drains or water ways. If the product

contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Clean with detergents. Avoid solvents. Contain and collect spillage with non-

combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national

regulations (see section 13).

Additional advice : Refer to section 15 for specific national regulation.

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7. HANDLING AND STORAGE

Handling

Safe handling advice Avoid exceeding of the given occupational exposure limits (see section 8).

> Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For

personal protection see section 8.

Advice on protection against

fire and explosion

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Requirements for storage areas

and containers

Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 30°C (41 - 86 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see

section 15).

Advice on common storage Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components on the national list and/or the European TLV list (98/24/EC):

Components	CAS-No.	Value	Value	Basis
		$[mg/m^3]$	[ppm]	

Personal protective equipment

General advice

Respiratory protection When operators, whether spraying or not, have to work inside the spray

> booth, ventilation is unlikly to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed airfed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure

limits.

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Hand protection For prolonged or repeated contact use protective gloves.

Barrier creams may help to protect the exposed areas of skin, they should

however not be applied once exposure has occurred.

Skin should be washed after contact.

Use chemical resistant gloves classified under Standard EN 374: Protective

gloves against chemicals and micro-organisms.

Recommended gloves: Chemical resistant gloves

Minimum breakthrough time: 480 min

The recommended gloves are based on most common solvent in this product.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30

minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glovematerials, as wellas the instructions/specifications provided by the glove supplier.

Eve protection Chemical resistant goggles must be worn.

Skin and body protection Personnel should wear protective clothing. Skin should be washed after

contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic

footwear.

Additional advice

Environmental protection Refer to national regulations in chapter 15 for regulations on environmental

protection.

Personal protection

Protective equipment Eye protection and safety gloves





Please contact your personal protection equipment supplier for further advice

9. PHYSICAL AND CHEMICAL PROPERTIES

Form viscous Colour various Odour aromatic mild Flash point 74.0 °C

Note: Calculated

Autoignition temperature

Note: no data available

Upper explosion limit

Note: not applicable

Lower explosion limit

Note: not applicable

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Density 1.21 g/cm3 at 20 °C

Water solubility not applicable

pН no data available

17,000 mPa.s at 23 °C Viscosity, dynamic

Flow time >= 60 s

Transversal section: 6 mm

Method: ISO 2431 (EN 535) 6 mm CUP

10. STABILITY AND REACTIVITY

Conditions to avoid Avoid temperatures above 60°C (140 F), direct sunlight and contact with

sources of heat.

Keep away from oxidising agents, strongly alkaline and strongly acid **Hazardous reactions**

materials in order to avoid exothermic reactions. Avoid moisture. Preparation

reacts slowly with water resulting in evolution of hydrogen.

Hazardous decomposition

products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx),

dense black smoke.

11. TOXICOLOGICAL INFORMATION

Product information There is no data available for this product.

The preparation has been assessed following the conventional method of the

Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details. May cause nausea, abdominal spasms and irritation of the mucous

Acute oral toxicity membranes.

Acute inhalation toxicity Exposure to component solvent vapours concentration in excess of the stated

occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss

of consciousness.

Skin irritation Repeated or prolonged contact with the preparation may cause removal of

> natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies.

Eye contact Irritating to eyes.

Further information Based on the properties of epoxy constituent(s) and considering toxicological

data on similar preparations, this preparation may be a skin sensitiser and a severe irritant. It contains epoxy based reactive diluents wich are moderate to severely irritating to eyes, mucous membrane and skin and are strong sensitisers. Repeated skin contact may lead to irritation and to hypersensitivity, possible with cross-sensitisation to other epoxies. Single oral exposure to doses of epoxy based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals.

Prolonged exposure to high concentration may cause adverse effects in target

organs such as liver and kidney.

Acute Toxicity Data for Components

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12. ECOLOGICAL INFORMATION

Further information : The preparation has been assessed following the conventional method of the

Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See sections 3 and 15 for details.

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water courses or the soil.

Disposal together with normal waste is not allowed. Special disposal required

according to local regulations.

Waste key for the unused

product

The European Waste Catalogue classification of this product, when disposed

of as waste is:

08 01 11 Waste paint and varnish containing organic solvents or other

dangerous substances.

If this product is fully cured or mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority

14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright, labelled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport:

UN-Number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class : 9 Packing group : III Label : 9

Proper shipping name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name 1 : epoxy resin (Mw <= 700)
Technical name 2 : 2,3-epoxypropyl neodecanoate

Marine Pollutant (IMDG) :

EmS (IMDG) : F-A, S-F

Limited quantity (ADR) : Max. per inner pack. : 5.00 L

Max. per outer pack. : 30.00 KG : Max. per inner pack. : 5.00 L

Max. per outer pack. : 30.00 KG

15. REGULATORY INFORMATION

Limited quantity (IMDG)

The product is classified and labelled in accordance with Directive 1999/45/EC.

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Hazardous components which must be listed on the label:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecularweight ≤ 700)

2,3-Epoxypropyl neodecanoate

R-phrase(s) R36/38 Irritating to eyes and skin.

> R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

S-phrase(s) S23 Do not breathe spray.

> S36/37 Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable S38

> > respiratory equipment.

S61 Avoid release to the environment. Refer to special

instructions/ Safety data sheets.

P-phrase(s) Contains epoxy constituents. See information supplied by the

manufacturer.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

National legislation

16. OTHER INFORMATION

Explanation of R-phrases mentioned in section 3

2,3-Epoxypropyl neodecanoate	R43 R51/53	May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecularweight ≤ 700)	R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

aluminium R10

> R15 Contact with water liberates extremely flammable gases.

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This Safety Data Sheet is based on the Safety Data Sheets obtained from the producer/manufacturer or/and internet databases and valid regulations considering hazardous substances/preparations.

Training advice:

Persons taking part in a turnover of hazardous products ought to be trained in product handling, safety and hygiene.

Drivers ought to be trained and obtain a certificate in accordance with the requirements of transport regulations (ADR).

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The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.