

Safety Data Sheet

<sup>®</sup> Prepared in Accordance with HCS 29 C.F.R. 1910.1200

## 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	8863A1NL	Revision Date:	12/05/2022
	Product Name:	POLYCLAD ARO PART A	Supercedes Date:	02/02/2016
1.2	Relevant identified uses of the substance or mixture and uses advised against	Component of multicomponent industrial coatings - Industrial use.		
1.3	Details of the supplier of the safety	data sheet		
	Manufacturer:	Carboline Global Inc. 2150 Schuetz Road St. Louis, MO USA 63146		
		Regulatory / Technical Information: Contact Carboline Technical Services at 1-800-848-4645		
	Datasheet Produced by:	Schlereth, Ken - regulatory@carboline.c	om	
1.4	Emergency telephone number:	CHEMTREC 1-800-424-9300 (Inside US CHEMTREC +1 703 5273887 (Outside L HEALTH - Pittsburgh Poison Control 1-4	(SÌ	

# 2. Hazard Identification

## 2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4 Carcinogenicity, category 2 Eye Irritation, category 2 Respiratory Sensitizer, category 1 STOT, repeated exposure, category 2 STOT, single exposure, category 3, RTI Skin Irritation, category 2 Skin Sensitizer, category 1

#### 2.2 Label elements

#### Symbol(s) of Product



Signal Word

Danger

#### Named Chemicals on Label

4,4' MDI, POLYMERIC MDI, 2,2, 2,4 MDI

#### HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2	H319	Causes serious eye irritation.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Respiratory Sensitizer, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
PRECAUTION PHRASES		
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.

Wear respiratory	protection

P285	In case of inadequate ventilation wear respiratory protection.
P302+352	IF ON SKIN: Wash with plenty of soap and water.

P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.

P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do so.
	Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention

Get medical advice/attention if you feel unwell.

P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P341	If breathing is difficult, remove victim to fresh air and keep at
	rest in a position comfortable for breathing.
P342+311	If experiencing respiratory symptoms: Call a POISON
	CENTER or doctor/physician.

## 2.3 Other hazards

No Information

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

P284 P285

P314

# 3. Composition/Information On Ingredients

#### 3.2 Mixtures

#### Hazardous ingredients

Name According to EEC EINEC No. CAS-No.

<u>%</u>

## **Classifications**

Date Printed: 12/21/2022

POLYMERIC MDI	618-498-9	9016-87-9	50 - <75	H315-317-319-332-334-335-351 -373	
4,4' MDI	202-966-0	101-68-8	25 - <50	H315-317-319-332-334-335-351 -373	Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 2, STOT SE 3 RTI
2,2, 2,4 MDI	247-714-0	26447-40-5	1.0 - <2.5	H315-317-319-332-334-335-351 -373	
CAS-No.	<u>M-F</u>	actors			
9016-87-9	0				
101-68-8	0				
26447-40-5	0				

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

#### 4.1 Description of First Aid Measures

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact. Irritating to eyes and skin. May be harmful if swallowed.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Humid air and/or water will produce carbon dioxide which will pressurize the container. Contamination may result in dangerous pressure increases - closed containers may rupture.

#### FOR SAFETY REASONS NOT TO BE USED: No Information

#### 5.2 Special hazards arising from the substance or mixture No Information

#### 5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment. Water reactiveDry chemical(on small fires)Extinguishing media - large firesEvacuate personnel to safe areas. The product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use NIOSH approved respiratory protection. Do NOT use water jet. Use water spray to cool unopened containers.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: No Information

#### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. Ensure adequate ventilation.

Evacuate personnel to safe areas. Wear personal protective equipment. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Keep the container open.

#### 6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

No Information

## 7. Handling and Storage

#### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING :** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Ensure all equipment is electrically grounded before beginning transfer operations. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Avoid breathing vapors, mist or gas. Wash thoroughly after handling. **PROTECTION AND HYGIENE MEASURES :** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

**CONDITIONS TO AVOID:** Heat, flames and sparks. Keep from any possible contact with water. **STORAGE CONDITIONS:** Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

No specific advice for end use available.

#### 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

#### Ingredients with Occupational Exposure Limits

(US)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
POLYMERIC MDI	9016-87-9	N/E	N/E	N/E
4,4' MDI	101-68-8	0.005 PPM	N/E	N/E
2,2, 2,4 MDI	26447-40-5	N/E	N/E	N/E
Name	CAS-No.	<u>OSHA PE</u>	<u>L OSHA S</u>	<u>TEL</u>
POLYMERIC MDI	9016-87-9	N/E	N/E	
4,4' MDI	101-68-8	0.02 PPM-CI	EILIN N/E	
2,2, 2,4 MDI	26447-40-5	N/E	N/E	

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

#### 8.2 Exposure controls

#### Personal Protection

**RESPIRATORY PROTECTION:** In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this

document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

EYE PROTECTION: Safety glasses with side-shields.

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. **ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

9.1	Information on basic physical and chemical properties Appearance:	Viscous, Dark Brown Liquid
	Physical State	Liquid
	Odor	Musty
	Odor threshold	N/D
	рН	N/D
	Melting point / freezing point (°C)	N/D
	Boiling point/range (°C)	392F (200C) - 597 F (314 C)
	Flash Point (°C)	390F (199C)
	Evaporation rate	Slower Than Ether
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	N/A - N/A
	Vapour Pressure, mmHg	N/D
	Vapour density	Heavier than Air
	Relative density	Not determined
	Solubility in / Miscibility with water	N/D
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature (°C)	Not determined
	Decomposition temperature (°C)	Not determined
	Viscosity	Not Determined
	Explosive properties	Not determined
	Oxidising properties	Not determined
9.2	Other information VOC Content g/I:	0
	Specific Gravity (g/cm3)	1.24

## 10. Stability and Reactivity

- 10.1 Reactivity Water reactive
- 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur.

#### 10.4 Conditions to avoid

Heat, flames and sparks. Keep from any possible contact with water.

#### 10.5 Incompatible materials

Never allow product to get in contact with water during storage. Strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxide, cyanides, isocyanate vapours.

## **11. Toxicological Information**

#### 11.1 Information on toxicological effects

Acute Toxicity:	
Oral LD50:	N/D
Inhalation LC50:	N/D
Irritation:	Unknown
Corrosivity:	Unknown
Sensitization:	Unknown
Repeated dose toxicity:	Unknown
Carcinogenicity:	Unknown
Mutagenicity:	Unknown
Toxicity for reproduction:	Unknown
STOT-single exposure:	No Information
STOT-repeated exposure:	No Information
Aspiration hazard:	No Information

# If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	<u>Dust/Mist</u> LC50
9016-87-9	POLYMERIC MDI	>10000 mg/ kg, oral, rat		310 mg/m3, inh, 4 hr, rat	0.000	0.000
101-68-8	4,4' MDI	15000 mg/kg oral		43 ppm vapor 4 hrs	0.000	0.000
26447-40-5	2,2, 2,4 MDI	15000 mg/kg oral		43 ppm vapor 4hrs	0.000	0.000

#### Additional Information:

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. Inhalation of vapour or mist can cause headache, nausea, irritation of nose, throat, and lungs. Hot processing of this material release isocyanate containing vapours, known to be toxic by inhalation.

#### 12. Ecological Information 12.1 Toxicity: EC50 48hr (Daphnia): Unknown Unknown IC50 72hr (Algae): Unknown LC50 96hr (fish): 12.2 Persistence and degradability: Unknown 12.3 Bioaccumulative potential: Unknown 12.4 Mobility in soil: Unknown 12.5 Results of PBT and vPvB The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII. assessment: 12.6 Other adverse effects: Unknown CAS-No. **Chemical Name** EC50 48hr IC50 72hr LC50 96hr No information No information 9016-87-9 POLYMERIC MDI No information >1000 mg/l (Daphnia >929 mg/l (Green 101-68-8 4,4' MDI No Information Magna) Algae) 26447-40-5 2,2, 2,4 MDI No information No information No information

## 13. Disposal Considerations

**13.1** WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14.	Transport Information	
14.1	UN number	None
14.2	UN proper shipping name	Not Regulated
	Technical name	N/A
14.3	Transport hazard class(es)	None
	Subsidiary shipping hazard	N/A
14.4	Packing group	N/A
14.5	Environmental hazards	Unknown
14.6	Special precautions for user	Unknown
	EmS-No.:	N/A
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Unknown

## 15. Regulatory Information

<sup>15.1</sup> Safety, health and environmental regulations/legislation for the substance or mixture:

## U.S. Federal Regulations: As follows -

## **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	<u>%</u>
POLYMERIC MDI	9016-87-9	54
4,4' MDI	101-68-8	44

#### **Toxic Substances Control Act:**

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

#### U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this

product.

#### Pennsylvania Right-To-Know

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product. CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

## International Regulations: As follows -

#### \* Canadian DSL:

No Information

#### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other Information

## Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

#### **Reasons for revision**

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.