

AC/R Acid Aid

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/03/2017 Supersedes: 02/10/2016 Version: 1.1

SECTION 1: Identification

1.1. Identification

Trade name AC/R Acid Aid
Product code : AA2OZ

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Acid scavenger for HVAC and refrigeration systems.

1.3. Distributed By:

National Refrigeration Products 985 Wheeler Way Langhorne, PA 19047 USA

1.4. Emergency telephone number

Emergency number : USA PHONE:**1-800-352-6951** CHEMTREC – 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral) H302 Harmful if swallowed

Category 4

Specific target organ H373 May cause damage to organs through prolonged or repeated exposure

toxicity (repeated exposure)

Category 2

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS07

.07 GHS

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell

P314 - Get medical advice/attention if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents / container in accordance with local / regional / national /

international regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	GHS-US classification
2,2',6,6'-Tetraisopropyldiphenyl Carbodiimide	(CAS No) 2162-74-5	28.5	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2,6-diisopropylphenyl isocyanate	(CAS No) 28178-42-9	0.3 - 1	Acute Tox. 4 (Oral), H302

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Specific hazards arising from the chemical

No additional information available

Special protective equipment and precautions for fire-fighters 5.3.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up 6.3.

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep only in the original of

: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place

away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,6-diisopropylphenyl isocyanate (28178-42-9)

Not applicable

2,2',6,6'-Tetraisopropyldiphenyl Carbodiimide (2162-74-5)

Not applicable

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Suggested protective material: Nitrile, 4.5 mil thickness, tested at 3.5 ml and above with no breakthrough time after 240 minutes. Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Where there is potential for airborne exposure above the exposure limit an approved air purifying respirator equipped with Type P2 - Medium efficiency particle filters may be used. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid Physical state **Appearance** : Clear. Color : Colorless Odor Characteristic. Odor threshold : No data available : No data available pΗ Melting point : No data available Freezing point : No data available Boiling point : No data available

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Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosion limits : No data available Explosive properties Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon Dioxide. Hydrogen cyanide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

AA2OZ – AC/R Acid Aid		
ATE US (oral)	1747.880 mg/kg body weight	
2,6-diisopropylphenyl isocyanate (28178-42-9)		
LD50 oral rat	1414 mg/kg (Rat)	
LC50 inhalation rat (mg/l)	0.047 mg/l/4h (Rat)	
ATE US (oral)	1414.000 mg/kg body weight	
ATE US (vapors)	0.047 mg/l/4h	
ATE US (dust, mist)	0.047 mg/l/4h	
2.21.6.61.Totraiconropuldinhonul Carbodiimido (2162-74.5)		

2,2',6,6'-Tetraisopropyldiphenyl Carbodiimide (2162-74-5)

ATE US (oral) 500.000 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if inhaled.

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

AA2OZ – AC/R Acid Aid	
Persistence and degradability	Not established.
2,6-diisopropylphenyl isocyanate (28178-42-9)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

AA2OZ – AC/R Acid Aid	
Bioaccumulative potential	Not established.
2,6-diisopropylphenyl isocyanate (28178-42-9)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Not applicable

Air transport

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

2,2',6,6'-Tetraisopropyldiphenyl Carbodiimide (2162-74-5)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

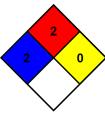
No additional information available

SECTION 16: Other information

Other information : None.

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Full text of H-phrase	es: see section 16:
H302	Harmful if swallowed
H373	May cause damage to organs through prolonged or repeated exposure
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



SDS US (GHS HazCom 2012)

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