Honeywell

CSDE-GYL

Version 1

Revision Date 05/01/2009

Print Date 05/01/2009

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Aegis® Nylon Resin

MSDS Number

000000011530

Product Use Description

Plastic resin for use in the manufacture of items used in

industrial packaging, food packaging and other multi-purpose

applications.

Company

Honeywell International, Inc.

101 Columbia Road

Morristown, NJ 07962-1057

For more information call

800-707-4555

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call

Medical: 1-800-498-5701

Transportation: 1-800-424-9300 or +1-703-527-3887

(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form

: pellets

Color

: natural colour

Odor

: slight organic

Hazard Summary

: The molten product can cause serious burns. Product dust may

be irritating to eyes, skin and respiratory system. Thermal decomposition can lead to release of irritating gases and

vapours.

Potential Health Effects

Skin

: May cause mechanical irritation.

The molten product can cause serious burns.

Eyes

: May cause mechanical irritation.

Thermal decomposition can lead to release of irritating gases

and vapours.

Ingestion

: Unlikely route of exposure.

Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhoea.

Inhalation

: May cause respiratory tract irritation.

Thermal decomposition can lead to release of irritating gases

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and vapours.

Chronic Exposure

: None known.

Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

CAS-No.

Weight %

Polyamide resin

- >90.00

Proprietary additives .epsilon.-Caprolactam

105-60-2

<10.00 <1.00

SECTION 4. FIRST AID MEASURES

Inhalation

: Remove to fresh air. Call a physician if irritation develops or

persists.

Skin contact

: Wash off immediately with plenty of water. Use a mild soap if available. Call a physician if irritation develops or persists. Cool skin rapidly with cold water after contact with hot polymer. Call a

physician immediately.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

Call a physician if irritation develops or persists.

Ingestion

: Unlikely route of exposure. Seek medical advice.

Notes to physician

Treatment

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Flash point

: not determined

Lower explosion limit

not applicable

Upper explosion limit

not applicable

Suitable extinguishing

Water spray Foam

media

Dry chemical

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Honeywel Material Safety Data Sheet CSDE-GYL Print Date 05/01/2009 Revision Date 05/01/2009 Version 1 Carbon dioxide (CO2) Extinguishing media which : High volume water jet shall not be used for safety reasons In case of fire hazardous decomposition products may be Specific hazards during fire produced such as: fighting Carbon monoxide Ammonia Amines Ketones **Nitriles** Hydrogen cyanide (hydrocyanic acid) : In the event of fire and/or explosion do not breathe fumes. Special protective Wear self-contained breathing apparatus and protective suit. equipment for fire-fighters Use extinguishing measures that are appropriate to local Additional advice circumstances and the surrounding environment. **SECTION 6. ACCIDENTAL RELEASE MEASURES** : Wear personal protective equipment. Unprotected persons Personal precautions must be kept away. Ensure adequate ventilation. Should not be released into the environment. Environmental precautions Sweep up or vacuum up spillage and collect in suitable Methods for cleaning up container for disposal. Avoid dust formation. **SECTION 7. HANDLING AND STORAGE** Handling Wear personal protective equipment. Handling Heat only in areas with appropriate exhaust ventilation. Do not breathe fumes, vapour. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do not breathe dust. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Advice on protection against : Normal measures for preventive fire protection. fire and explosion Storage

Honeywel Material Safety Data Sheet **CSDE-GYL** Revision Date 05/01/2009 Print Date 05/01/2009 Version 1 Keep containers tightly closed in a dry, cool and well-ventilated Requirements for storage areas and containers place. SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION : Handle in accordance with good industrial hygiene and safety Protective measures Ensure that eyewash stations and safety showers are close to the workstation location. Effective exhaust ventilation system Engineering measures Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors. Wear as appropriate: Eye protection Safety glasses with side-shields Face-shield When handling hot material, use heat resistant gloves. Hand protection Wear heat protective clothing for handling hot material. Skin and body protection When workers are facing concentrations above the exposure Respiratory protection limit they must use appropriate certified respirators. **Exposure Guidelines ACGIH** TWA 5 mg/m3 105-60-2 .epsilon.-Caprolactam Inhalable fraction and vapor. Form of exposure 1 mg/m3 NIOSH REL 0.22 ppm Form of exposure Vapor. 1 mg/m3 NIOSH REL Form of exposure Dust. 3 mg/m3 0.66 ppm NIOSH STEL Form of exposure Vapor. 3 mg/m3 NIOSH STEL Form of exposure Dust. 20 mg/m3 US CA OEL TWA PEL 5 ppm Vapor. Form of exposure US CA OEL TWA PEL 1 mg/m3 Form of exposure Dust. 10 ppm 40 mg/m3 US CA OEL STEL Form of exposure Vapor. 3 mg/m3 **STEL** US CA OEL

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Particulates Not Otherwise Regulated	Form of exposure	Dust.
	OSHA Z1A TWA Form of exposure	1 mg/m3 Dust.
	OSHA Z1A TWA Form of exposure	5 ppm 20 mg/m3 Vapor.
	OSHA Z1A STEL Form of exposure	10 ppm 40 mg/m3 Vapor.
	OSHA Z1A STEL Form of exposure	3 mg/m3 Dust.
	ACGIH TWA	10 mg/m3
	Form of exposure	Inhalable particles.
	ACGIH TWA Form of exposure	3 mg/m3 Respirable particles.
	inorganic, or organic substance name are Not Otherwise Regu	5 mg/m3 Respirable fraction. dusts, whether mineral, not listed specifically by covered by the Particulates lated (PNOR) limit which is the nuisance dust limit of Table
	inorganic, or organic substance name are Not Otherwise Regu	15 mg/m3 Total dust. dusts, whether mineral, c, not listed specifically by e covered by the Particulates ulated (PNOR) limit which is the r nuisance dust limit of Table
	OSHA Z1A TWA Form of exposure	5 mg/m3 Respirable fraction.
	OSHA Z1A TWA Form of exposure	15 mg/m3 Total dust.
	Z3 TWA	15 millions of particles per cubic foot of air
	Form of exposure Z3 TWA	Respirable fraction. 50 millions of particles
	Form of exposure	per cubic foot of air Total dust.
	Z3 TWA	5 mg/m3
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Honeywell Material Safety Data Sheet CSDE-GYL Print Date 05/01/2009 Revision Date 05/01/2009 Version 1 Respirable fraction. Form of exposure 15 mg/m3 Z3 TWA Total dust. Form of exposure 10 mg/m3 **TWA PEL** US CA OEL Form of exposure Total dust. US CA OEL **TWA PEL** 5 mg/m3 Respirable fraction. Form of exposure SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES : pellets Form : natural colour Color : slight organic Odor : not applicable pН : 220 °C (428 °F) Melting point/range Boiling point/boiling range : not applicable Vapor pressure : not applicable : not applicable Relative vapour density : not determined Density : insoluble Water solubility **SECTION 10. STABILITY AND REACTIVITY** : Avoid exposure to temperatures exceeding recommended Conditions to avoid processing conditions. Honeywell should be contacted if questions arise concerning specific processing conditions. : Strong acids Materials to avoid Strong oxidizing agents : In case of fire hazardous decomposition products may be Hazardous decomposition produced such as: products Carbon monoxide Ammonia Amines Ketones **Nitriles** Hydrogen cyanide (hydrocyanic acid)

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Hazardous reactions

: Hazardous polymerisation does not occur.

Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: LD50 rat

Dose: 930 - 2,500 mg/kg Test substance: Caprolactam

Acute dermal toxicity

: no data available

Acute inhalation toxicity

: LC50 rat

Dose: 8,160 mg/m3 Exposure time: 4 h

Test substance: Caprolactam

Skin irritation

: May irritate skin.

Eye irritation

: Resin particles, like other inert materials, are mechanically

irritating to eyes.

Sensitisation

no data available

Additional advice

: There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological

information

: Accumulation in aquatic organisms is unlikely.

Not inherently biodegradable.

Aquatic toxicity is unlikely due to low solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Information: Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

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SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances

Control Act

: On the inventory, or in compliance with the inventory

Australia. Industrial Chemical (Notification and

Assessment) Act

: On the inventory, or in compliance with the inventory

Canada. Canadian **Environmental Protection** Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) : On the inventory, or in compliance with the inventory

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act

: On the inventory, or in compliance with the inventory

China. Inventory of Existing

Chemical Substances

: On the inventory, or in compliance with the inventory

EU. EINECS

: On the inventory, or in compliance with the inventory

National regulatory information

SARA 311/312 Hazards

: Acute Health Hazard

California Prop. 65

: This product does not contain any chemicals known to State of

California to cause cancer, birth, or any other reproductive

defects.

Massachusetts RTK

: .epsilon.-Caprolactam

105-60-2

New Jersey RTK

: .epsilon.-Caprolactam

105-60-2

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Pennsylvania RTK

: .epsilon.-Caprolactam

105-60-2

WHMIS Classification

: Not Rated

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required

by the CPR.

SECTION 16. OTHER INFORMATION

 Health Hazard
 : 1
 1

 Flammability
 : 1
 1

 Physical Hazard
 : 0
 ...

 Instability
 : 0
 ...