SAFETY DATA SHEET



1. Identification

Product identifier JFOAM AC-555-T

Other means of identification

Product code KA8600
Recommended use Polyol

Recommended restrictions For industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name J6 Polymers LLC Address 601 Derby Line Rd.

Genoa, IL 60135

USA

Telephone General 1-815-517-1179

E-mail Not available.

Emergency phone number Medical 1-800-228-5635

Chemtrec Chemtrec 1-800-424-9300 Int'l +1 703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Sensitization, respiratory Category 1B
Sensitization, skin Category 1B

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Harmful if inhaled. Causes serious eye

irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

Prevention Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after

handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective

gloves. Wear eye/face protection. Wear respiratory protection.

Response If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable

for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash

before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

Material name: JFOAM AC-555-T

SDS US

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
_lsocyanic acid, polymethylenepolyphenylene ester		9016-87-9	45 - 55
_Methylenebisphenylene diisocyanate (MDI)		101-68-8	35 - 45
Diphenylmethane diisocyanate		26447-40-5	1 - 5

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Take off

contaminated clothing and wash before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause an allergic skin reaction. Dermatitis. Rash. May cause allergic respiratory reaction. May

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

During fire, gases hazardous to health may be formed.

protect themselves. Wash contaminated clothing before reuse.

cause redness and pain. Prolonged exposure may cause chronic effects.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not breathe vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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7. Handling and storage

Precautions for safe handling

Do not breathe vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Type `	, Value	
_Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)	Ceiling	0.2 mg/m3	
,		0.02 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Type	Value	
_Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)	TWA	0.005 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
_Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)	Ceiling	0.2 mg/m3	
·		0.02 ppm	
	TWA	0.05 mg/m3	

Biological limit values

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

0.005 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing.

Respiratory protection Avoid exposure - obtain special instructions before use. Protection against this substance requires

special consideration. In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified

respirators. or Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

pН

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

Not available.

9. Physical and chemical properties

Appearance Not available.

Physical state Liquid.
Form Not available.
Color Brown.
Odor Not available.
Odor threshold Not available.

Melting point/freezing point $< 32 \,^{\circ}\text{F} \ (< 0 \,^{\circ}\text{C})$

Material name: JFOAM AC-555-T SDS US

406 °F (207.8 °C) Initial boiling point and boiling

range

> 390 °F (> 198.9 °C) Pensky-Martens Closed Cup Flash point

Estimated slower than ethyl ether. **Evaporation rate**

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

< 0.000100 mm Hg @ 25C Vapor pressure

8.5 (air = 1)Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not soluble **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. 200 cP @ 25C **Viscosity**

Other information

10.3 lb/gal **Bulk density** Specific gravity 1.2400 @ 25C

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Conditions to avoid

Incompatible materials Acids. Strong oxidizing agents. Alkaline metals. Alcohols. Phenols.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Harmful if inhaled. May cause damage to organs by inhalation. May cause allergy or asthma Inhalation

symptoms or breathing difficulties if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an

allergic skin reaction. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

Harmful if inhaled. May cause an allergic skin reaction. May cause allergy or asthma symptoms or **Acute toxicity**

breathing difficulties if inhaled. May cause respiratory irritation.

Note: The initial acute inhalation classification of Category 2 (0.49 mg/L) has been revised to more accurately reflect the conditions in which the product is to be applied. The test conditions found in the animal studies do not properly reflect the conditions of the workplace when proper respiratory protections are followed nor the manner in which the product can reasonably be

expected to be used.

Product Species Test Results

JFOAM AC-555-T

Acute Dermal

LD50 Rabbit > 10000 mg/kg

Material name: JFOAM AC-555-T SDS US **Product Species Test Results** Inhalation LD50 Rat 0.49 mg/l, 4 h Oral LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory sensitization

May cause an allergic skin reaction. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Diphenylmethane diisocyanate (CAS 26447-40-5) 3 Not classifiable as to carcinogenicity to humans. _Methylenebisphenylene diisocyanate (MDI) (CAS 3 Not classifiable as to carcinogenicity to humans.

101-68-8)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity single exposure

Respiratory tract irritation.

Specific target organ toxicity -

May cause damage to organs through prolonged or repeated exposure.

repeated exposure

Aspiration hazard

Not applicable.

Chronic effects

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment. **Test Results**

Product Species JFOAM AC-555-T Acute Algae **NOEC** Algae 1640 mg/l, 72 hours EC50 Crustacea Daphnia 1000 mg/l, 24 hours Fish LC0 Fish > 1000 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

General When in individual containers of less than the Product RQ, this material ships as non-regulated.

DOT

UN number UN3082

Material name: JFOAM AC-555-T SDS US **UN proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (_Methylenebisphenylene diisocyanate

(MDI) RQ = 12500 lbs)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN3082

UN proper shipping name RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (_Methylenebisphenylene

diisocyanate (MDI))

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3082

UN proper shipping name RQ, Environmentally Hazardous Substance, Liquid, N.O.S. (_Methylenebisphenylene

diisocyanate (MDI))

Not available.

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Annex II of MARPOL 73/78 and the IBC Code

DOT; IATA; IMDG



15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

_Methylenebisphenylene diisocyanate (MDI) (CAS Listed.

101-68-8)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
_lsocyanic acid, polymethylenepolyphenylene ester	9016-87-9	45 - 55	

Material name: JFOAM AC-555-T Sps us

Chemical name	CAS number	% by wt.
_Methylenebisphenylene diisocyanate (MDI)	101-68-8	35 - 45

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act No.

Not regulated.

(SDWA)

US state regulations

US - New Jersey Community RTK (EHS Survey): Reportable threshold

_Methylenebisphenylene diisocyanate (MDI) (CAS 500 lbs

101-68-8)

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)

US. Massachusetts RTK - Substance List

Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)

US. Rhode Island RTK

Methylenebisphenylene diisocyanate (MDI) (CAS 101-68-8)

Inventory name

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

 Issue date
 06-26-2015

 Revision date
 09-25-2017

Version # 02

NFPA ratings



Material name: JFOAM AC-555-T SDS US

On inventory (yes/no)*

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Revision Information

Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Disclosure Overrides

Fire Fighting Measures: Physical & Chemical Properties: HazReg Data: North America Index: United States

Material name: JFOAM AC-555-T SDS US