Accella Tire Fill Systems Safety Data Sheet

1. Identification of Substance:

Product Name: Tyrfil 360 Isocyanate Component

Supplier Identification: Telephone: Accella Tire Fill Systems (423) 697-0400

Emergency phone number: Address: CHEMTREC (800) 424-

2003 Curtain Pole Road 9300 Chattanooga, TN 37406

Product Use: Polyurethane isocyanate component

2. Hazards Identification:

GHS Ratings:

Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally low exposure (guidanc

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
HS Precautions	

GH

P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P260 Do not breathe dust/fume/gas/mist/vapours/spray P261 Avoid breathing dust/fume/gas/mist/vapours/spray

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P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
	for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a
	position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact
	lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep container tightly closed
P501	Dispose of contents/container in accordance with Section 13

Signal Word: Danger





3. Composition/Data on Components:

Chemical Name	CAS number	Weight Concentration %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	50.00% - 60.00%
4,4'-Methylenediphenyl diisocyanate	101-68-8	30.00% - 40.00%
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	5873-54-1	1.00% - 5.00%

4. First Aid Measures:

After Inhalation: May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity.
Remove from exposure area.
Administer oxygen or artificial

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respiration as needed.

Obtain medical attention.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water.

Permove contact lenses if present

Remove contact lenses if present and easy to do so, and continue rinsing.

After Skin Contact: Remove contaminated clothing. Clean affected area with soap and plenty of water. Call a physician if irritation develops.

After Swallowing: Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

Notes to Physician: Treat symptomatically. Following severe exposure the patient should be kept under medical review for a least 48 hours.

5. Fire Fighting Measures:

Flash Point: 230 C (446 F)

LEL: UEL:

Suitable Extinguishing

Agents: Water spray, CO2, Foam,

Dry chemical

HCN.

Information about Protection against Explosions and Fires:

Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, and traces of

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

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6. Accidental Release Measures:

Person-Related Safety Precautions:

Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Measures for Environmental

Protection: Cover and contain spill with absorbent material. Place in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). Collect for proper disposal according to local, state, and federal regulations.

7. Handling and Storage:

Information for Safe Handling: Do not breathe fumes, vapors or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.

Storage Requirements: Store in dry,

well ventilated area. Keep containers tightly closed. Store

between 60°F-100°F.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	Not Established	Not Established	Not Established
4,4'-Methylenediphenyl diisocyanate 101-68-8	0.005 ppm TWA 0.02 ppm STEL	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m3 TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m3 Ceiling (10 min)
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-5873-54-1	Not Established	Not Established	Not Established

Engineering Controls: Use local exhaust ventilation to maintain

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airborne concentrations below the TLV, especially if heating or spraying. Use only in a well ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

General Protective and Hygienic

Measures: Usual precautionary measures should be adhered to when handling chemicals.

Personal Protective Equipment: Respiratory Protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is exceeded. Do not enter storage area unless adequately ventilated.

Hand Protection: Protective butyl rubber or nitrile rubber gloves. **Eye Protection:** Chemical safety

goggles.

Body Protection: Protective work clothing. Launder separately.

9. Physical and Chemical Properties:

Appearance: Brown liquid

Vapor Pressure: N/A
Vapor Density: N/A
Specific Gravity 1.01

Freezing point: N/A

Boiling range: N/A

Evaporation rate: N/A Explosive Limits: N/A

Autoignition temperature: 240°C

Odor: Musty

Odor threshold: N/A

pH: N/A

Melting point: N/A

Solubility: N/A

Flash point: 446°F,230°C

Flammability: N/A

Partition coefficient (n- N/A

octanol/water):

Decomposition temperature: N/A

10. Stability and Reactivity:

Incompatible Materials: Avoid contact with water, amines, strong bases, and alcohols.

Hazardous Polymerization: Not

expected to occur. **Dangerous Products of**

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Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons, isocyanates, and traces of HCN.

11. Toxicological Information:

Mixture Toxicity

Inhalation Toxicity LC50: 1mg/L

Component Toxicity

101-68-8 4,4'-Methylenediphenyl diisocyanate

Dermal LD50: 1 mg/L (Rat) Inhalation LC50: 369 mg/m3 (Rat)

Toxicity Values Listed if Known

Acute Health Effects:

Eyes: Severe irritation, tearing, swelling, and possible damage to

cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and

blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization. Ingestion: Irritating and corrosive to mouth, stomach, and digestive

tract.

Chronic Health Effects: Isocyanates

may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure. Limited evidence of possible carcinogenic effects.

Conditions Aggravated by

Exposure: Asthma, respiratory disorders, skin allergies, eczema Routes of Entry: Inhalation, ingestion, skin contact, eye contact Target Organs: Respiratory track,

eyes, skin

Chemicals with known or possible

carcinogenic effects:

CAS NumberDescription% WeightCarcinogen Rating101-68-84,4'-Methylenediphenyl30 to 40%4,4'-Methylenediphenyl

diisocyanate diisocyanate:

12. Ecological Information:

General Information: Based on experience, no adverse effects are expected if correct disposal procedures have been followed as indicated in section 13.

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Individual component ecotoxicity listed if known.

Component Ecotoxicity

4,4'-Methylenediphenyl 24 Hr LC50 Brachydanio rerio: >500 mg/L diisocyanate 24 Hr EC50 Daphnia magna: >500 mg/L

13. Disposal Considerations:

Recommendation: Observe local requirements. Dispose of in accordance with all applicable local/state/federal regulations.

14. Transport Information:

DOT Regulated Components:

4,4' Methylene Diphenyl Diisocyanate

Reportable Quantity: 5000 lbs

When in individual containers of less that the substance RQ, this material ships as non-regulated. Containers above RQ ship as:

Agency Proper Shipping Name

DOT Environmentally Hazardo

Environmentally Hazardous Substance, N.O.S.

(Contains Diphenylmethane Diisocyanate)

UN NumberPacking GroupHazard Class3082III9

15. Regulatory Information:

OSHA HAZARD

COMMUNICATION STANDARD:

This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard

Categories: Acute health hazard, chronic health hazard.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Massachusetts Right To Know List:

4,4'-Methylenediphenyl diisocyanate 101-68-8 30 to 40 %

New Jersey Right To Know List:

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Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 50 to 60 %

Pennsylvania Right To Know List:

4,4'-Methylenediphenyl diisocyanate 101-68-8 30 to 40 %

Chemicals subject to SARA 313

Reporting:

4,4'-Methylenediphenyl diisocyanate 101-68-8 30 to 40 % Emissions Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 50 to 60 % Emissions

All Substances Listed on TSCA Inventory Unless Noted:

- None

16. Other Information:

Safey Data Sheet issued by Product Safety Department

re Fill Systems . The data on these sheets relates only to the specific material designated herein . Accella Tire Fill Systems assumes no legal responsibility for u

Date revised: 2017-01-13 Reviewer Revision

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