according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



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1. Product and company identification

#### **Product identifier**

Trade name:

ZZ® 360

This safety data sheet pertains to the following products: ZZ® 360 Fire Protection Foam

#### Relevant identified uses of the substance or mixture and uses advised against

General use:

Di-/poly-isocyanate component to produce polyurethanes. For industrial purposes only.

#### Details of the supplier of the safety data sheet

Company name:	ZAPP-ZIMMERMANN GmbH		
Street/POB-No.:	Marconistr. 7-9		
Postal Code, city:	50769 Köln		
	Germany		
WWW:	www.z-z.de		
E-mail:	info@z-z.de		
Telephone:	+49 (0)221-97 061-0		
Telefax:	+49 (0)221-97 061-928		
Department responsible for information:			
	Lars Volkmer,		
	Telephone: +49 (0)221-97061-160, e-mail Lars.Volkmer@kzim.de		

#### **Emergency phone number**

+49 (0) 221 970 61 555

# 2. Hazards identification

#### **Emergency overview**

0,	
Appearance: Odor:	Physical state at 68 °F and 101.3 kPa: liquid Color: red brown characteristic
Classification:	Skin Irritation - Category 2. Eye Irritation - Category 2A. Respiratory Sensitizer - Category 1. Sensitization - skin - Category 1. Carcinogenicity - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.
Hazard symbols:	
Signal word: Hazard statements:	Danger Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements:	
Frecautionary statements.	Obtain special instructions before use.
	Do not breathe dust/fume/gas/mist/vapors/spray.
	Wash hands and face thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Contaminated work clothing should not be allowed out of the workplace.
	Wear protective gloves/protective clothing/eye protection/face protection.
	In case of inadequate ventilation wear respiratory protection.
	IF ON SKIN: Wash with plenty of water/soap.
	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.
	IF exposed or concerned: Get medical advice/attention.
	Call a POISON CENTER/doctor if you feel unwell.
	Specific treatment (see ' First aid ' on this label).
	If skin irritation or rash occurs: Get medical advice/attention.
	If eye irritation persists: Get medical advice/attention.
	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
	Take off contaminated clothing.
	Store in a well-ventilated place. Keep container tightly closed.
	Store locked up.
	Dispose of contents/container to hazardous or special waste collection point.
Pogulatory stat	

#### **Regulatory status**

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Hazards not otherwise classified

Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations. Vapors and aerosols are the main dangers to the respiratory tract.

Respiratory symptoms may still occur several hours after overexposure.

Special danger of slipping by leaking/spilling product.

see section 11: Toxicological information

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# 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 9016-87-9	4,4'- Diphenylmethane disocyanate (isomers, homologues)	< 30 %	Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Respiratory Sensitizer - Category 1. Sensitization - skin - Category 1. Carcinogenicity - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.
trade secret	Catalyst	< 1 %	Acute Toxicity - oral - Category 4. Specific Target Organ Toxicity (Repeated Exposure) - Category 2.
trade secret	Catalyst	< 0.05 %	Skin Corrosion - Category 1B. Eye Damage - Category 1. Sensitization - skin - Category 1B. Specific Target Organ Toxicity (Single Exposure) - Category 1. Specific Target Organ Toxicity (Repeated Exposure) - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
trade secret	Polyole	< 100 %	not classified
trade secret	Phosphate	< 100 %	not classified
trade secret	Non-halogen flame retardant	< 100 %	not classified
trade secret	Smoke Suppressant	< 100 %	not classified
CAS 7732-18-5	Water	< 100 %	not classified
trade secret	Polysiloxanes	< 100 %	not classified
trade secret	Drying Agent	< 100 %	not classified

	4. First aid measures
General information:	Immediately remove any wetted clothing, shoes or stockings.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Do not allow victim to become chilled. Keep victim warm. Keep victim calm and seek medical attention immediately. If victim is at risk of losing consciousness, position and transport on their side.
Following skin contact:	Immediately clean with water and soap and, if available, apply a generous amount of polyethylene glycol 400. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Afterwards, consult an ophthalmologist immediately.
After swallowing:	Rinse mouth. Do not induce vomiting. Immediately get medical attention.

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#### Most important symptoms/effects, acute and delayed

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation.

#### Information to physician

Γ

Product causes irritation of respiratory tracts and may possibly increase sensitivity of skin and respiratory tracts. Treatment of the acute irritation or bronchial narrowing is mainly symptomatic. Depending on the scale of exposition, as well as aches and pains resulting, long-term medical care may be required.

5. Fire fighting measures		
Flash point/flash point range:		
	not applicable	
Auto-ignition temperature:	not applicable	
Suitable extinguishing med	ia:	
	Foam, dry chemical powder, carbon dioxide	
	In case of large fires: also water spray jet	
Extinguishing media which	must not be used for safety reasons:	
	strong water jet	
Specific hazard	Is arising from the chemical	
	In case of fire may be liberated: Isocyanate vapors, traces of hydrogen cyanide, nitrous fumes, carbon monoxide	
Protective equipment and p	precautions for firefighters:	
	Wear self-contained breathing apparatus and protective clothing to protect skin and eyes.	
Additional information:	Heating causes rise in pressure with risk of bursting.	
	Cool endangered containers with water spray and, if possible, remove from danger zone. Remove persons not involved upwind.	
	Do not allow water used to extinguish fire to enter drains, ground or waterways.	

6. Accidental release measures		
Personal precautions:	Avoid exposure. Keep unprotected people away. Wear appropriate protective equipment. Provide adequate ventilation. Avoid contact with the substance. Use a breathing protection against vapors/aerosol.	
Environmental precautions:		
	Do not allow to penetrate into soil, waterbodies or drains.	
Methods for clean-up:	Take up mechanically, placing in appropriate containers for disposal. Final cleaning.	
Additional information:	n: Special danger of slipping by leaking/spilling product.	

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# 7. Handling and storage

#### Handling

Advices on safe handling:	<ul> <li>Avoid exposure - obtain special instructions before use.</li> <li>Provide adequate ventilation, and local exhaust as needed.</li> <li>Airflow should move away from persons.</li> <li>The effectiveness of the facilities must be checked at regular intervals.</li> <li>Avoid contact with skin and eyes. Wear appropriate protective equipment.</li> <li>Do not breathe dust or mist. Work place should be equipped with a shower and an eye rinsing apparatus.</li> </ul>	
Storage		
Requirements for storeroor	ms and containers:	
	Keep containers tightly closed and at a temperature between 41 °F and 86 °F. Keep in a cool, well-ventilated place. Keep container dry. Protect from humidity and water.	

Do not allow the product to enter the ground.

Hints on joint storage: Keep away from food and drinks.

Further details: Use caution when opening containers under pressure.

# 8. Exposure controls / personal protection

#### **Exposure guidelines**

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
9016-87-9	4,4'-Diphenylmethane disocyanate (isomers, homologues)	USA: NIOSH: Ceiling	0.2 mg/m³; 0.02 ppm
	( , <b>5</b> )	USA: NIOSH: TWA	0.05 mg/m³; 0.005 ppm
trade secret	Catalyst	USA: ACGIH: STEL	10 mg/m³ (inhalable fraction Aerosol)
		USA: ACGIH: STEL USA: ACGIH: TWA	50 ppm (vapor) 25 ppm (vapor)
trade secret	Catalyst	USA: ACGIH: STEL	0.2 mg/m³ (may be absorbed through the skin)
		USA: ACGIH: TWA	0.1 mg/m³ (may be absorbed through the skin)
		USA: IDLH: TWA	25 Śn/m3
		USA: NIOSH: TWA	0.1 mg/m³ (may be absorbed through the skin)
		USA: OSHA: TWA	0.1 mg/m³

#### **Engineering controls**

Provide good ventilation and/or an exhaust system in the work area. See also information in chapter 7, section storage.

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#### **Personal protection equipment (PPE)**

Eye/face protection:	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.		
Skin protection:	Wear suitable protective clothing.		
	protective gloves according to OSHA Standard - 29 CFR: 1910.138 Glove material: Nitrile rubber - NBR >= 0,35 mm Butyl caoutchouc (butyl rubber) - IIR >= 0,5 mm, Fluororubber (Viton) - FKM (>= 0,4 mm) polyvinyl chloride - PVC (>= 0,5 mm). Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.		
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Filter type: Full-facepiece, air-purifying respirator equipped with a combination organic vapor/N95 filter cartrige.		
General hygiene considerations:			
	Avoid exposure - obtain special instructions before use. Avoid contact with the substance. Do not breathe dust or mist. Work place should be equipped with a shower and an eye rinsing apparatus. Wash hands before breaks and after work. Take off immediately all contaminated clothing. Keep away from food, drink and animal feedingstuffs.		

#### **Environmental exposure controls**

Refer to 6.: Section "Environmental precautions".

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance: Odor: Odor threshold:	Physical state at 68 °F and 101.3 kPa: liquid Color: red brown characteristic No data available
pH: Melting point/freezing point: Initial boiling point and boiling range: Flash point/flash point range: Evaporation rate:	not applicable not determined not determined not applicable No data available
Flammability: Explosion limits:	not determined LEL (Lower Explosion Limit): not applicable UEL (Upper Explosive Limit): not applicable
Vapor pressure:	at 77 °F: <= 0.00001 kPa
Vapor density:	No data available
Density:	approx. 1.3 g/mL
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature: Thermal decomposition:	not applicable No data available

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Viscosity, dynamic: Oxidizing characteristics:

Bulk density:

not relevant no

not applicable

# **10. Stability and reactivity**

Reactivity:	Reactions with alcohols, amines, liquid acids and bases. Contact with Water liberates carbon dioxide.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous re	<sup>actions:</sup> No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	No data available
Incompatible materials:	Amines, alcohols, water
Thermal decomposition:	No data available

# 11. Toxicological information

#### **Toxicological tests**

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. Acute toxicity (dermal): Based on available data, the classification criteria are not met. Acute toxicity (inhalative): Based on available data, the classification criteria are not met. Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation. Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Respiratory Sensitizer -Category 1 = May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Carcinogenicity - Category 2 = Suspected of causing cancer. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation. Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) -Category 2 = May cause damage to organs through prolonged or repeated exposure. Aspiration hazard: Lack of data.



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Other information:	Persons with over-sensitive breath ways (e.g. asthma, chronic bronchitis) are not allowed to use the product due to safety regulations.
	<ul> <li>Information about Diphenylmethane diisocyanate (isomers, homologues):</li> <li>A long-term studie with rats over two years with mechanically produced, inhalable aerosols (aerodyn. diametre of 95% under 5 µm) of polymer MDI (PMDI) and concentrations of 0.2, 1.0 and 6.0 mg PMDI/m<sup>3</sup> showed the following results:</li> <li>The group of animals exposed to the highest concentration suffered an increased incidence of lung tumours, persistent inflammatory changes to the nose, respiratory tract and lungs, and yellowish deposits in the respiratory tract and lungs.</li> <li>The animals in the 1.0 mg/m<sup>3</sup> group exhibited slight irritation and inflammatory changes to the nose, respiratory tract and lungs, but did not develop lung tumours and/or deposits. Animals in the 0.2 mg/m<sup>3</sup> group suffered no irritation: this concentration was therefore deemed to constitute the 'no-effect level'.</li> </ul>
	For carcinogenic effects:
	Information about Diphenylmethane diisocyanate (isomers, homologues): Carcinogen Status:
	IARC Rating: Group 3
	OSHA Carcinogen: not listed
	NTP Rating: not listed
	Information about Non-halogen flame retardant: Carcinogen Status:
	IARC Rating: Group 3
	OSHA Carcinogen: not listed
	NTP Rating: not listed
Symptoms	
	In case of inhalation: Irritation of nose, throat, lung. Headache, throat dryness, respiratory complaints, chest pressure. May cause sensitization by inhalation. Susceptible persons may develop ailments and allergic reactions with some delay. In case of ingestion: May be harmful if swallowed. After contact with skin: In case of a prolonged contact tanning and irritating effects may occur. After eye contact: Produces for a short time a weak reddening and tumefaction of the conjunctiva as well as

Produces for a short time a weak reddening and tumefaction of the conjunctiva as well as a weak, reversible rendering turbid of the cornea.

# 12. Ecological information

#### Ecotoxicity

Aquatic toxicity:Information about Diphenylmethane diisocyanate (isomers, homologues):Bacterial toxicity: EC50 > 100 mg/L /3hDaphnia toxicity: EC50 Daphnia magna: > 1000 mg/L /24hFish toxicity: LC0 Danio rerio (zebrafish): > 1000 mg/L /96 h.

#### Mobility in soil

No data available

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



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#### Persistence and degradability

Further details: Forms carbon dioxide and turns into a hard and insoluble by-product (poly urea) on the water's edge. This reaction is intensified by surface-active substances (e.g. liquid soaps) or water soluble solvents. Based upon current knowledge, poly urea is inert and will not decompose.

#### Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

### 13. Disposal considerations

#### Product

Recommendation:

Non-reacted state: ASN 080501\*: Waste isocyanates \*= Evidence for disposal must be provided. Reacted state: ASN 080410: waste adhesives and sealants other than those mentioned in 08 04 09.

Dispose of waste according to applicable legislation.

#### Package

Waste key number:	15 01 02 = Plastic packaging
Recommendation:	Dispose of waste according to applicable legislation.
	Handle contaminated packages in the same way as the substance itself.
	Non-contaminated packages may be recycled.

### 14. Transport information

#### **UN number**

ADR/RID, IMDG, IATA-DGR:

not applicable

#### UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

### Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

no

#### Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

#### **Environmental hazards**

Marine pollutant:

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



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<b>USA: Department of</b>	<b>Transportation</b>	(DOT)
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Proper	shipping	name:
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Not restricted

# Sea transport (IMDG)

Proper shipping name:: Marine pollutant: Not restricted no

### Air transport (IATA)

Proper shipping name::

Not restricted

#### **Further information**

No dangerous good in sense of these transport regulations.

# **15. Regulatory information**

#### National regulations - U.S. Federal Regulations

4,4'-Diphenylmethane disocyanate (isomers,	TSCA Inventory: listed; EPA flags XU
homologues):	Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed
Catalyst:	TSCA Inventory: listed; EPA flags T Clean Air Act: CAA Hazardous Air Pollutants: yes CAA SOCMI Chemical: yes
	Other Environmental Laws: CERCLA: RQ 5000 lbs. SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
	NIOSH Recommendations: Occupational Health Guideline: 0272
Catalyst:	TSCA Inventory: listed
Phosphate:	TSCA Inventory: listed; UVCB
Non-halogen flame retardant:	TSCA Inventory: listed
Smoke Suppressant:	TSCA Inventory: listed
Water:	TSCA Inventory: listed
Polysiloxanes:	TSCA Inventory: listed; UVCB; EPA flags XU
Drying Agent:	Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed

#### National regulations - U.S. State Regulations

Catalyst:

California Proposition 65: developmental

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



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#### National regulations - Canada

-

Product:	DSL: listed ingredients: all
4,4'-Diphenylmethane disocyanate (isomers, homologues):	DSL: listed
Catalyst:	DSL: listed
Catalyst:	DSL: listed
Polyole:	DSL: listed
Phosphate:	DSL: listed
Smoke Suppressant:	DSL: listed
Water:	DSL: listed
Polysiloxanes:	DSL: listed
Drying Agent:	DSL: listed
National regulations - Great Britain	

Hazchem-Code:

	16. Other information	
Text for labeling:	Contains < 30 % 4,4'-Diphenylmethane disocyanate (isomers, h Catalyst, < 0.05 % Catalyst, < 100 % Polyole, < 100 % Phospha flame retardant, < 100 % Smoke Suppressant, < 100 % Water, < 100 % Drying Agent. Contains Diphenylmethane diisocyanate (isomers, homologues	ate, < 100 % Non-halogen < 100 % Polysiloxanes,
Hazard rating systems:	NFPA Hazard Rating: Health: 2 (Moderate) Fire: 1 (Slight) Reactivity: 2 (Moderate)	,
	HMIS Version III Rating: Health: 2 (Moderate) - Chronic effects Flammability: 1 (Slight) Physical Hazard: 2 (Moderate) Personal Protection: X = Consult your supervisor	HEALTH*2FLAMMABILITY1PHYSICAL HAZARD2X



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Abbreviations and acronyms:

Acute Toxicity: Acute toxicity ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road Aquatic toxicity - acute: Hazardous to the aquatic environment - acute Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic AS/NZS: Australian Standards/New Zealand Standards Carcinogenicity: Carcinogenicity CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EC50: Effective Concentration 50% EN: European Standard EQ: Excepted quantities Eye Damage: Eye damage Eye Irritation: Eye irritation IATA: International Air Transport Association IATA-DGR: International Air Transport Association - Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IMDG Code: International Maritime Dangerous Goods Code LC0: Lethal concentration 0% I EL · Lower Explosion Limit MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships OEL: Occupational Exposure Limit Value OSHA: Occupational Safety and Health Administration PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration Respiratory Sensitizer: Sensitisation to the respiratory tract RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail Sensitization - skin: Skin sensitisation Skin Corrosion: Skin corrosion Skin Irritation: Skin irritation STOT RE: Specific target organ toxicity - repeated exposure STOT SE: Specific target organ toxicity - single exposure TLV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative WEL: Workplace Exposure Limit Changes in section 8: Occupational exposure limit values

Date of first version: 2/25/2013

#### Department issuing data sheet

Contact person:

Reason of change:

see section 1: Department responsible for information