

acc. to ISO/DIS 11014

Printing date 06/30/2011 Version 2 Reviewed on 06/30/2011

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name:

Metaduct 1225 SN-736 Base

· Application of the substance / the

preparation Epoxy resin adhesive

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Mereco Division

Metachem Resins Corporation

1505 Main Street

West Warwick, RI 02893

USA

Phone +1 / 401 / 822-9300

· Information department:

Technical department. email = info@mereco.com

· Emergency telephone

number:

Telephone: (401) 822-9300

2 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with non-hazardous

additions.

· Components:	
Mineral filler	Xi R36/37
Diglycidyl Ether Bisphenol-A epoxy resin	Xi R36/38-43; N R51/53
Reactive diluent	Xn R22; Xi R36/37/38-43

· Additional information:

This material is a blend of liquid resins with metallic filler particles and possible other mineral or ceramic fillers. The solid fillers do not pose airborne hazards to the user of this formulated product because they are encapsulated in the resin mass. If any of the solid fillers are hazardous in accordance with Section 313 of the Emergency Planning and Community Right-to-know Act (EPCRA) they are identified in Section 15 of this MSDS (SARA Section 313).

For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- · Classification of the substance or mixture
 - · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant

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R36/37/38-43: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin

contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

 Information concerning particular hazards for

human and environment: The product has to be labelled due to the calculation procedure of

international guidelines.

· Classification system: The classification was made according to the latest editions of

international substances lists, and expanded upon from company

and literature data.

· Label elements

· Labelling according to EU

quidelines:

The product has been classified and marked in accordance with

directives on hazardous materials.

Code letter and hazard

designation of product:

Xi Irritant

· Hazard-determining

components of labelling:

Diglycidyl ether Bisphenol-A epoxy resin

reactive diluent (epoxy functional)

• *Risk phrases:* 36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

• Safety phrases: 2 Keep out of the reach of children.

28 After contact with skin, wash immediately with plenty of soap

and water.

37/39 Wear suitable gloves and eye/face protection.

Avoid release to the environment. Refer to special

instructions/safety data sheets.

· Special labelling of

certain preparations:

Contains epoxy constituents. See information supplied by the

manufacturer.

· Classification system:

NFPA ratings (scale 0 - 4)

Health = 2 Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 2

Fire = 1

Reactivity = 0

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4 First aid measures

• After inhalation: Supply fresh air. For added safety, call a doctor.

In case of unconsciousness place patient in a stable side position

for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. If

symptoms persist, consult a doctor.

• After swallowing:

If symptoms persist consult doctor.

* 5 Firefighting measures

· Suitable extinguishing

agents: CO2, extinguishing powder or water spray. Fight larger fires with

water spray or alcohol resistant foam.

· Special hazards arising from

the substance or mixture

No further relevant information available.

Protective equipment: No special measures required.

* 6 Accidental release measures

· Personal precautions, protective equipment and

emergency procedures

Not required.

· Environmental precautions: Inf

Inform respective authorities in case of seepage into water course

or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe

handling

Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

 Information about protection against

explosions and fires:

No special measures required.

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· Storage:

Requirements to be met by

storerooms and

receptacles:

No special requirements.

· Information about storage in one common storage

facility:

Not required.

· Further information about

storage conditions:

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the

workplace:

The product does not contain any relevant quantities of materials

with critical values that have to be monitored at the workplace. The lists that were valid during the creation were used as basis.

· Personal protective equipment:

General protective and

· Additional information:

hygienic measures: Keep away from foodstuffs, beverages and feed.

> Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: In case of brief exposure or low pollution use respiratory filter

device. In case of intensive or longer exposure use respiratory

protective device that is independent of circulating air.

· Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the

material.

· Material of gloves The selection of suitable gloves depends not only on the material.

> but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

> calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove

material

The exact penetration time has to be determined by the glove

manufacturer and has to be observed.

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• Eye protection: Tightly sealed goggles

* 9 Physical and chemical properties

General Information	
· Appearance:	
· Form:	Pasty
· Color:	Silver-colored
· Odor:	Mild
· Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	201°C
Flash point:	254°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
· Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20°C:	1.9 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
Segregation coefficient (n-octonol/w	vater): Not determined.
Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
Solvent content:	
· Organic solvents:	0.0 %

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• Other information No further relevant information available.

* 10 Stability and reactivity

· Thermal decomposition /

conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous

reactions

Reacts with amines.

Conditions to avoidIncompatible materials:

No further relevant information available. No further relevant information available.

· Hazardous decomposition

products:

Irritant gases/vapors

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· on the skin:

Irritant to skin and mucous membranes.

· on the eye:

Irritating effect.

· Sensitization:

Sensitization possible through skin contact.

· Additional toxicological

information:

The product shows the following dangers according to internally

approved calculation methods for preparations:

Irritant

12 Ecological information

• Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to fish

· Additional ecological information:

• General notes: Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or

sewage system.

Danger to drinking water if even small quantities leak into the

ground.

Harmful to aquatic organisms

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

* 14 Transport information

- Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Applicable	
· UN proper shipping name		
· DOT	Not Regulated	
· ADR, ADN, IMDG, IATA	Not Applicable	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Not Applicable	
· Packing group		
· DOT, ADR, IMDG, IATA	Not Applicable	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	

* 15 Regulatory information

· Sara

· Section 302 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
7440-22-4 silver	1-3%
Sections 311/312 (Specific hazard chemical listings):	
reactive diluent (epoxy functional)	
· Sections 311/312 Hazard Categorizations:	
reactive diluent (epoxy functional)	A = Acute health hazard 1-3%
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Reviewed on 06/30/2011 **Printing date 06/30/2011** Version 2 Trade name: Metaduct 1225 SN-736 Base (Contd. from page 7) · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. Carcinogenic categories · EPA (Environmental Protection Agency) 7440-22-4 silver D · IARC (International Agency for Research on Cancer) None of the ingredients is listed. · NTP (National Toxicology Program) None of the ingredients is listed. · TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. · MAK (German Maximum Workplace Concentration) None of the ingredients is listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases R22 Harmful if swallowed.

R36/37 Irritating to eyes and respiratory system. R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Department issuing MSDS: Technical department

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Material Safety Data Sheet acc. to ISO/DIS 11014

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Trade name: Metaduct 1225 SN-736 Base				
Contact: * Data compared to the previous version altered.	Dr. John F. Plummer	(Contd. from page 8)		
-		LICA		

Phone +1 / 401 / 822-9300



Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/01/2011 Version 2 Reviewed on 07/01/2011

1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: Metaduct 1225 SN-736 Activator

· Application of the substance / the

preparation Epoxy curing agent

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Mereco Division

Metachem Resins Corporation

1505 Main Street

West Warwick, RI 02893

USA

· Information department: Technical department.

email = info@mereco.com

· Emergency telephone

number:

Telephone: (800) 424-9300 (Chemtrec)

Call this number in the event of an accident resulting in a spill, leak or fire. Call this number in the event of exposure to the chemicals.

2 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with non-hazardous

additions.

· Components:			
	aliphatic polyamine	C R34; Xn R68/20/21; Xi R41-43	
	Reactive diluent	Xn R20/22-40-68; Xi R36/37-43 R52/53 Carc. Cat. 3, Muta. Cat. 3	
104-78-9	3-aminopropyldiethylamine	Xi R36/38-43	
111-40-0	2,2'-iminodiethylamine	C R34; Xn R21/22; Xi R43	
80-05-7	4,4'-isopropylidenediphenol (bisphenol A)	Xn R62; Xi R37-41-43 R52 Repr. Cat. 3	

Additional information:

For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- · Classification of the substance or mixture
 - · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive

R34:

Causes burns.

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Xn; Harmful

R21/22-68/20/21: Harmful in contact with skin and if swallowed. Harmful: possible risk of

irreversible effects through inhalation and in contact with skin.

Xi; Irritant

R43: May cause sensitisation by skin contact.

R10: Flammable. • *Information concerning*

particular hazards for

human and environment: The product has to be labelled due to the calculation procedure of

international guidelines.

· Classification system: The classification was made according to the latest editions of

international substances lists, and expanded upon from company

and literature data.

· Label elements

· Labelling according to EU

guidelines:

The product has been classified and marked in accordance with

directives on hazardous materials.

Code letter and hazard

designation of product:

C Corrosive

· Hazard-determining

components of labelling:

polyethylenepolyamine epoxy adduct

3-aminopropyldiethylamine 2,2'-iminodiethylamine

4,4'-isopropylidenediphenol (bisphenol A)

• *Risk phrases:* 10 Flammable.

21/22 Harmful in contact with skin and if swallowed.

34 Causes burns.

43 May cause sensitisation by skin contact.

68/20/21 Harmful: possible risk of irreversible effects through

inhalation and in contact with skin.

• **Safety phrases:** 20 When using do not eat or drink.

In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face

protection.

In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible).

This material and its container must be disposed of as

hazardous waste.

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· Classification system:

· NFPA ratings (scale 0 - 4) Health = 3

Fire = 2

Reactivity = 0

· HMIS-ratings (scale 0 - 4) Health = *3

Fire = 2Reactivity = 0

4 First aid measures

• General information: Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation is necessary for at least 48 hours

after the accident.

• After inhalation: Supply fresh air. For added safety, call a doctor.

In case of unconsciousness place patient in a stable side position

for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.
 After eye contact: Rinse opened eye for several minutes under running water. Then

consult a doctor.

· After swallowing: Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately

call a doctor.

* 5 Firefighting measures

· Suitable extinguishing

agents:

CO2, extinguishing powder or water spray. Fight larger fires with

water spray or alcohol resistant foam.

· For safety reasons unsuitable

extinguishing agents:

Water with full jet

· Special hazards arising from

the substance or mixture

No further relevant information available.

· Protective equipment: No special measures required.

* 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures

emergency procedures Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust).

Use neutralizing agent.

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Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

• Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe

handling

Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

 Information about protection against

explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage:

· Requirements to be met by

storerooms and

receptacles:

No special requirements.

Information about storage in one common storage

facility:

Not required.

· Further information about

storage conditions:

Keep receptacle tightly sealed.

Specific end use(s)
 No further relevant information available.

* 8 Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

111-40-0 2,2'-iminodiethylamine

REL 4 mg/m³, 1 ppm Skin

.V 4.2 mg/m³, 1 ppm

Skin

Additional information:

The lists that were valid during the creation were used as basis.

· Personal protective equipment:

· General protective and

hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Not required.

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· Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material is based on consideration of the penetration times, rates of diffusion and the degradation of the

material.

Material of gloves The selection of suitable gloves depends not only on the material,

but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.

· Penetration time of glove

material

The exact penetration time has to be determined by the glove

manufacturer and has to be observed.

• Eye protection: Tightly sealed goggles

9 Physical and chemical properties

General Information Appearance:	
· Form:	Liquid
· Color:	Light yellow
· Odor:	Ammonia-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 169°C
· Flash point:	51°C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	260°C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
· Explosion limits: · Lower:	1.4 Vol %

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· Upper:	Not determined.
· Vapor pressure at 20°C:	2.5 hPa
· Density at 20°C:	0.98 g/cm ³
· Relative density	Not determined.
Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Segregation coefficient (n-octon	ol/water): Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
· Other information	No further relevant information available.

* 10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous

reactions

Reacts with acids.

Reacts with strong acids.

· Conditions to avoid

· Incompatible materials: · Hazardous decomposition No further relevant information available. No further relevant information available.

products:

Nitrogen oxides Irritant gases/vapors

* 11 Toxicological information

· Acute toxicity:

· LD/LC	· LD/LC50 values that are relevant for classification:			
104-78-	104-78-9 3-aminopropyldiethylamine			
Oral	LD50	1410 mg/kg (rat)		
Dermal	LD50	620 mg/kg (rabbit)		
111-40-	111-40-0 2,2'-iminodiethylamine			
Oral	LD50	1080 mg/kg (rat)		
Dermal	LD50	1090 mg/kg (rabbit)		

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	80-05-7 4,4'-isopropylidenediphenol (bisphenol A)			
Oral	LD50	3250 mg/kg (rat)		
Dermal	LD50	3000 mg/kg (rabbit)		
	reactive diluent (epoxy functional)			
Oral	LD50	2050 mg/kg (rat)		
Dermal	LD50	2520 mg/kg (rabbit)		

· Primary irritant effect:

on the skin:

Caustic effect on skin and mucous membranes.

on the eye:

Strong caustic effect.

· Sensitization:

Sensitization possible through skin contact.

· Additional toxicological

information:

The product shows the following dangers according to internally

approved calculation methods for preparations:

Harmful Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat

and to the danger of perforation of esophagus and stomach.

* 12 Ecological information

· Aquatic toxicity: No further relevant information available.

- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
- Additional ecological information:
 - **General notes:** Water ha

Water hazard class 1 (Self-assessment): slightly hazardous for

water

Do not allow undiluted product or large quantities of it to reach

ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or

unneutralized.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not

allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

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* 14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN2734
· UN proper shipping name · DOT, IMDG, IATA · ADR	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (polyethylenepolyamine epoxy adduct, 3-DIETHYLAMINOPROPYLAMINE) 2734 AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (polyethylenepolyamine epoxy adduct, 3-DIETHYLAMINOPROPYLAMINE)
· Transport hazard class(es)	
· DOT, IMDG, IATA · Class · Label	8 Corrosive substances. 8+3
· ADR · Class · Label	8 (CF1) Corrosive substances 8+3
· Packing group · DOT, ADR, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups 	Warning: Corrosive substances 83 F-E,S-C Alkalis
· Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.

* 15 Regulatory information

· Sara

1-3%
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· Sections 311/312 Hazard Categorizations:			
	polyethylenepolyamine epoxy adduct	A = Acute; C = Chronic (health hazards)	>60%
104-78-9	3-aminopropyldiethylamine	A = Acute Health Hazard; F = Fire Hazard	20-40%
111-40-0	2,2'-iminodiethylamine	A = Acute; C = Chronic (health hazards)	1-3%
80-05-7	4,4'-isopropylidenediphenol (bisphenol A)	Category = A (Acute health hazard)	1-3%

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
 - · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

reactive diluent (epoxy functional)

|3B|<1%

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

* 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 10)

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 07/01/2011 Version 2 Reviewed on 07/01/2011

Trade name: Metaduct 1225 SN-736 Activator

		(Contd. from page 9)
· Relevant phrases	R20/22 R21/22 R34 R36/37 R36/38 R37 R40 R41 R43 R52 R52/53	Harmful by inhalation and if swallowed. Harmful in contact with skin and if swallowed. Causes burns. Irritating to eyes and respiratory system. Irritating to respiratory system. Irritating to respiratory system. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of irreversible effects. Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
 Department issuing MSDS: Contact: * Data compared to the previous version altered. 		department F. Plummer