

### **SAFETY DATA SHEET**

### Spray2Fix High Solids Epoxy Primer 10P20-13SC

### **Section 1. Identification**

GHS product identifier : Spray2Fix High Solids Epoxy Primer 10P20-13SC

Other means of identification : 10P20-13SC\_10P20-13/EC-213 Primer Aerosol

Product type : Aerosol.

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

: FOR INDUSTRIAL USE ONLY

Supplier/Manufacturer : Akzo Nobel Coatings, Inc.

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CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls

accepted)

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Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

#### Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

### Section 2. Hazards identification

Classification of the substance or mixture

: AEROSOLS - Category 1

ACUTE TOXICITY (oral) - Category 5

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 50.4% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 44.9%

**GHS label elements** 

Hazard pictograms









Signal word : Danger

**Hazard statements** : Extremely flammable aerosol.

May be harmful if swallowed. Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause cancer.

May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Pressurized container: may burst if heated.

**Precautionary statements** 

Prevention : Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after

handling. Pressurized container: Do not pierce or burn, even after use.

Response : Collect spillage. IF exposed or concerned: Get medical attention. IF INHALED:

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

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### Section 2. Hazards identification

Other hazards which do not

: None known.

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

#### Hazardous ingredients

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Ingredient name / Chemical name	%	CAS number
strontium chromate	10 - 25	7789-06-2
acetone	10 - 25	67-64-1
crystalline silica, respirable powder	2.5 - 10	14808-60-7
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	2.5 - 10	25068-38-6
4-methylpentan-2-one	2.5 - 10	108-10-1
heptan-2-one	2.5 - 10	110-43-0
toluene	2.5 - 10	108-88-3
titanium dioxide	2.5 - 10	13463-67-7
n-butyl acetate	1 - 2.5	123-86-4
benzyl alcohol	1 - 2.5	100-51-6
xylene	1 - 2.5	1330-20-7
4-tert-butylphenol	0 - 1	98-54-4
Formaldehyde, solution	0 - 1	50-00-0

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

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

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouthto-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

Skin contact Wash with plenty of soap and water. Remove contaminated clothing and shoes.

> Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air Ingestion

and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by

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#### Section 4. First aid measures

mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

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

Ingestion : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

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### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

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### Section 6. Accidental release measures

#### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

## Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits		
strontium chromate	ACGIH TLV (United States, 3/2015).		
	TWA: 0.0005 mg/m³, (measured as Cr) 8		
	hours.		
acetone	ACGIH TLV (United States, 3/2015).		
	STEL: 500 ppm 15 minutes.		
	TWA: 250 ppm 8 hours.		
crystalline silica, respirable powder	ACGIH TLV (United States, 3/2015).		
	TWA: 0.025 mg/m³ 8 hours. Form:		
	Respirable fraction		
4-methylpentan-2-one	ACGIH TLV (United States, 3/2015).		
	STEL: 75 ppm 15 minutes.		
	TWA: 20 ppm 8 hours.		
heptan-2-one	ACGIH TLV (United States, 3/2015).		
	TWA: 233 mg/m³ 8 hours.		
	TWA: 50 ppm 8 hours.		
toluene	ACGIH TLV (United States, 3/2015).		
	TWA: 20 ppm 8 hours.		
titanium dioxide	ACGIH TLV (United States, 3/2015).		
a both I acatata	TWA: 10 mg/m³ 8 hours.		
n-butyl acetate	ACGIH TLV (United States, 3/2015).		
	STEL: 200 ppm 15 minutes.		
andene	TWA: 150 ppm 8 hours.		
xylene	ACGIH TLV (United States, 3/2015).		
	STEL: 651 mg/m³ 15 minutes.		
	STEL: 150 ppm 15 minutes.		
	TWA: 434 mg/m³ 8 hours.		
Formaldehyde, solution	TWA: 100 ppm 8 hours. ACGIH TLV (United States, 3/2015). Skin		
Formaluenyue, Solution	sensitizer. Inhalation sensitizer.		
	C: 0.37 mg/m <sup>3</sup>		
	C: 0.37 mg/m²		
	О. 0.3 ррпі		

## Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Section 8. Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

#### **Appearance**

Vapor pressure

Vapor density

Physical state : Liquid.

Color : Yellow.

Odor : Solvent.
Odor threshold : Not available.
pH : Not available.
Melting/freezing point : Not available.
Boiling point : 56°C (132.8°F)
boiling range : Not available.

Flash point : Closed cup: -41°C (-41.8°F)

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Upper/lower flammability or explosive limits

Upper: : Not determined.Lower: : Not determined.: Not available.

Relative density : 1.003

: Not available.

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### Section 9. Physical and chemical properties

Density : 8.37 lbs/gal 1.003 g/cm<sup>3</sup>

Solubility : Not available.

Solubility in water : Not available.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (room temperature): 3.49 cm<sup>2</sup>/s (349 cSt)

Regulatory VOC : 4.34 lbs/gal (520 g/l) minus water and exempt solvents

Aerosol product

Type of aerosol : Spray
Heat of combustion : 16.41 kJ/g

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

**Acute toxicity** 

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## Section 11. Toxicological information

Product/ingredient name				
strontium chromate	LD50 Oral	Rat	3118 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
4-methylpentan-2-one	LD50 Oral	Rat	2080 mg/kg	=
heptan-2-one	LD50 Oral	Rat	1600 mg/kg	-
toluene	LD50 Oral	Rat	636 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
benzyl alcohol	LC50 Inhalation Vapor	Rat	1000 ppm	8 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
xylene	LD50 Oral	Rat	4300 mg/kg	-
Formaldehyde, solution	LD50 Dermal	Rabbit	270 mg/kg	=
	LD50 Oral	Rat	100 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetone	Eyes - Mild irritant	Human	-	186300 parts	-
	_			per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
reaction product: bisphenol-	Eyes - Mild irritant	Rabbit	-	100	-
A-(epichlorhydrin); epoxy				milligrams	
resin					
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		D 11.7		microliters	
	Skin - Severe irritant	Rabbit	=	24 hours 2	=
4 " 1 4 0	_ , , , , , , ,	B		milligrams	
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	=	24 hours 100	=
	Eves - Severe irritant	Rabbit		microliters 40 milligrams	
	Skin - Mild irritant	Rabbit	[	24 hours 500	
	Skiii - iviiid ii italit	Rabbit	-	milligrams	-
heptan-2-one	Skin - Mild irritant	Rabbit		24 hours 14	_
neptan 2 one	OKIT WING ITHEATE	Rabbit		milligrams	
toluene	Eyes - Mild irritant	Rabbit	_	0.5 minutes	_
toldono	Lyos mila imani	i tabbit		100	
				milligrams	
	Eyes - Mild irritant	Rabbit	_	870	_
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	_	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	

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	Skin - Moderate irritant	Rabbit	-	24 hours 20 -
				milligrams
	Skin - Moderate irritant	Rabbit	-	500 -
				milligrams
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 -
				Micrograms
				Intermittent
n-butyl acetate	Eyes - Moderate irritant	Rabbit	_	100 -
in bary, addition	Lyco Moderate initiant	rassit		milligrams
	Skin - Moderate irritant	Rabbit		24 hours 500 -
	Okin Woderate initant	rabbit		milligrams
honzyl oloobol	Skin - Mild irritant	Man		48 hours 16 -
benzyl alcohol	Skiii - Miliu IIIItarit	IVIAII	-	
				milligrams
	Skin - Moderate irritant	Pig	-	100 Percent -
	Skin - Moderate irritant	Rabbit	[-	24 hours 100 -
		1		milligrams
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams -
-	Eyes - Severe irritant	Rabbit	-	24 hours 5 -
				milligrams
	Skin - Mild irritant	Rat	_	8 hours 60 -
				microliters
	Skin - Moderate irritant	Rabbit		24 hours 500 -
	OKIT - Woderate irritarit	Rabbit		milligrams
	Claire Madanata innitant	Dabbit		
A tout but dobood	Skin - Moderate irritant	Rabbit	-	100 Percent -
4-tert-butylphenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 -
				Micrograms
	Eyes - Severe irritant	Rabbit	-	10 milligrams -
	Skin - Mild irritant	Rabbit	-	24 hours 500 -
				milligrams
	Skin - Mild irritant	Rabbit	-	4 hours 500 -
				milligrams
Formaldehyde, solution	Eyes - Mild irritant	Human	_	6 minutes 1 -
				parts per
				million
	Eyes - Severe irritant	Rabbit		24 hours 750 -
	Lyes - Severe illitarit	Nabbit	Ī	
	Fire Covers imitent	Dabbit		Micrograms
	Eyes - Severe irritant	Rabbit	[=	750 -
		1		Micrograms
	Skin - Mild irritant	Human	-	72 hours 150 -
		1		Micrograms
		1		Intermittent
	Skin - Mild irritant	Rabbit	[-	540 -
		1		milligrams
	Skin - Moderate irritant	Rabbit	[-	24 hours 50 -
				milligrams
	Skin - Severe irritant	Rabbit	[_	24 hours 2 -
				milligrams
	Skin - Severe irritant	Human		0.01 Percent -
Ì	OKIII - GEVELE IIIILAIIL	liuman	l <sup>-</sup>	U.UTFEICEIIL -

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

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### **Section 11. Toxicological information**

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
acetone	Category 3	Not applicable.	Narcotic effects
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation
heptan-2-one	Category 3	Not applicable.	Narcotic effects
toluene	Category 3	Not applicable.	Narcotic effects
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
4-tert-butylphenol	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
1 ' ' '	Category 2	Inhalation	Not determined
	Category 2	Inhalation	Not determined

#### **Aspiration hazard**

Name	Result
toluene	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

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

Ingestion : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

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### **Section 11. Toxicological information**

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact** : Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	3416.3 mg/kg
Dermal	33748.7 mg/kg
Inhalation (gases)	200645.4 ppm
Inhalation (vapors)	62.71 mg/l
Inhalation (dusts and mists)	32.94 mg/l

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### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
4-methylpentan-2-one	Acute LC50 505000 to 514000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
heptan-2-one	Acute LC50 131000 to 137000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
n-butyl acetate	Acute LC50 32000 μg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 62000 μg/l	Fish - Danio rerio	96 hours
benzyl alcohol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
xylene	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
4-tert-butylphenol	Acute EC50 3900 to 4500 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.15 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 2.3 mg/l Fresh water	Fish - Cyprinus carpio - Adult	28 days
Formaldehyde, solution	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.788 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 12.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 14000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.41 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.005 mg/l Marine water		96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

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### **Section 12. Ecological information**

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.23	-	low
reaction product: bisphenol-	2.64 to 3.78	31	low
A-(epichlorhydrin); epoxy			
resin			
4-methylpentan-2-one	1.9	-	low
heptan-2-one	2.26	-	low
toluene	2.73	90	low
titanium dioxide	-	352	low
n-butyl acetate	2.3	-	low
benzyl alcohol	0.87	-	low
xylene	3.12	8.1 to 25.9	low
4-tert-butylphenol	3	44 to 48	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### **Section 14. Transport information**

Special precautions for user : The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment of the DOT information.

> Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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### **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols	AEROSOLS	AEROSOLES	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	Yes.	No.	No.	Yes.	No.

### **Section 15. Regulatory information**

#### U.S. Federal regulations

United States inventory (TSCA 8b)

: All components are listed or exempted.

#### **SARA 311/312**

Classification : Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting	strontium chromate	7789-06-2	10 - 15
requirements	4-methylpentan-2-one	108-10-1	1 - 5
roquironionio	toluene	108-88-3	1 - 5
	xylene	1330-20-7	1 - 5
	ethylbenzene	100-41-4	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **International lists**

#### **National inventory**

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### **Section 15. Regulatory information**

Australia : At least one component is not listed. Canada : At least one component is not listed. China : All components are listed or exempted. : All components are listed or exempted. **Europe** Japan : At least one component is not listed. : At least one component is not listed. Malaysia **New Zealand** : At least one component is not listed. **Philippines** : At least one component is not listed. Republic of Korea : All components are listed or exempted. Taiwan : At least one component is not listed.

### **Section 16. Other information**

#### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### <u>History</u>

Date of issue/Date of revision : 3 December 2015

Version : 12 MSDS # : 008819 0002

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### **Section 16. Other information**

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.