

LA-CO Industries, Inc.

Tempilstik® 104 °F (40 °C), 131 °F (55 °C), 182 °F (83 °C), 200 °F (93 °C), 206 °F (97 °C), 213 °F (101 °C), 219 °F (104 °C), 225 °F (107 °C), 230 °F (110 °C), 239 °F (115 °C), 256 °F (124 °C), 263 °F (128 °C), 320 °F (160 °C), 325 °F (163 °C), 329 °F (165 °C), 374 °F (190 °C), 375 °F (191 °C), 383 °F (195 °C), 388 °F (198 °C), 392 °F (200 °C), 400 °F (204 °C), 413 °F (212 °C), 419 °F (215 °C), 550 °F (288 °C), 1400 °F (760 °C), 1450 °F (788 °C), 1500 °F (816 °C), 1550 °F (843 °C), 1600 °F (871 °C), 1650 °F (899 °C), 1700 °F (927 °C), 1800 °F (982 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 212 °F (100 °C), 257 °F (125 °C), 410 °F (210 °C), 554 °F (290 °C)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)

Date of issue: 04/22/2015

Revision date: 07/11/2018

Supersedes: 01/06/2016

Version: 3.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Tempilstik® 104 °F (40 °C), 131 °F (55 °C), 182 °F (83 °C), 200 °F (93 °C), 206 °F (97 °C), 213 °F (101 °C), 219 °F (104 °C), 225 °F (107 °C), 230 °F (110 °C), 239 °F (115 °C), 256 °F (124 °C), 263 °F (128 °C), 320 °F (160 °C), 325 °F (163 °C), 329 °F (165 °C), 374 °F (190 °C), 375 °F (191 °C), 383 °F (195 °C), 388 °F (198 °C), 392 °F (200 °C), 400 °F (204 °C), 413 °F (212 °C), 419 °F (215 °C), 550 °F (288 °C), 1400 °F (760 °C), 1450 °F (788 °C), 1500 °F (816 °C), 1550 °F (843 °C), 1600 °F (871 °C), 1650 °F (899 °C), 1700 °F (927 °C), 1800 °F (982 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 212 °F (100 °C), 257 °F (125 °C), 410 °F (210 °C), 554 °F (290 °C)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Temperature indicator
Restrictions on use : No additional information available

1.3. Supplier

LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village, IL. 60007-5746
Phone: (847) 956-7600
Fax: (847) 956-9885
E-mail: customer_service@laco.com



1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

181.48% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

260.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

260.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Concentration ranges are due to batch differences.

Name	Product identifier	%	GHS-US classification
2',4'-dimethylacetanilide	(CAS-No.) 97-36-9	0 - 84.79	Acute Tox. 4 (Oral), H302
adipic acid	(CAS-No.) 124-04-9	0 - 15.76	Eye Irrit. 2A, H319
salicylamide	(CAS-No.) 65-45-2	0 - 8.24	Acute Tox. 4 (Oral), H302
Iron oxide red	(CAS-No.) 1309-37-1	0 - 6.12	Aquatic Chronic 2, H411
butyl 4-hydroxybenzoate	(CAS-No.) 94-26-8	0 - 5.41	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
phenyl salicylate	(CAS-No.) 118-55-8	0 - 4.14	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
lithium sulphate	(CAS-No.) 10377-48-7	0 - 3.7755	Acute Tox. 4 (Oral), H302
Silicon dioxide (cristobalite)	(CAS-No.) 14808-60-7	0 - 0.12	Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of water/....

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : No specific fire or explosion hazard. Burning produces irritating, toxic and noxious fumes.
Reactivity : No dangerous reactions known.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable gloves.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust. Contain and collect as any solid.
Methods for cleaning up : Minimize generation of dust. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.
Incompatible products : Strong oxidizers. Strong bases.

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Prohibitions on mixed storage : Keep away from incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phenyl salicylate (118-55-8)		
Not applicable		
butyl 4-hydroxybenzoate (94-26-8)		
Not applicable		
2',4'-dimethylacetoacetanilide (97-36-9)		
Not applicable		
salicylamide (65-45-2)		
Not applicable		
Iron oxide red (1309-37-1)		
ACGIH	Local name	Iron oxide (Fe O)
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH	Remark (ACGIH)	Pneumoconiosis
OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³
Silicon dioxide (cristobalite) (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
ACGIH	Remark (ACGIH)	(respirable dust)
OSHA	OSHA PEL (TWA) (ppm)	250 mppcf
OSHA	Remark (OSHA)	(3) See Table Z-3.
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³
NIOSH	Remark (NIOSH)	(respirable dust)
adipic acid (124-04-9)		
ACGIH	Local name	Adipic acid
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH	Remark (ACGIH)	URT irr; ANS impair
lithium sulphate (10377-48-7)		
Not applicable		

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8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear dust impervious gloves.

Eye protection:

In case of dust production: protective goggles

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: A solid crayon-like marker.
Colour	: Variable
Odour	: odourless
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive limits : No data available
 Explosive properties : No data available
 Oxidising properties : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Keep away from incompatible materials. Avoid creating or spreading dust.

10.5. Incompatible materials

Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Not classified.
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS US)	181.48% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 260.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 260.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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phenyl salicylate (118-55-8)

LD50 oral rat	3000 mg/kg
ATE US (oral)	3000 mg/kg bodyweight

butyl 4-hydroxybenzoate (94-26-8)

LD50 oral rat	13200 mg/kg
ATE US (oral)	13200 mg/kg bodyweight

2',4'-dimethylacetoacetanilide (97-36-9)

LD50 oral rat	1995 mg/kg
ATE US (oral)	1995 mg/kg bodyweight

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salicylamide (65-45-2)	
LD50 oral rat	1400 mg/kg
ATE US (oral)	1400 mg/kg bodyweight

Iron oxide red (1309-37-1)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rat	5500 mg/kg
LC50 inhalation rat (mg/l)	5.05 mg/l/4h
ATE US (dermal)	5500 mg/kg bodyweight
ATE US (vapours)	5.05 mg/l/4h
ATE US (dust,mist)	5.05 mg/l/4h

adipic acid (124-04-9)	
LD50 oral rat	5560 mg/kg
LD50 dermal rabbit	7940 ml/kg
LC50 inhalation rat (mg/l)	> 7.7 mg/l/4h
ATE US (oral)	5560 mg/kg bodyweight

lithium sulphate (10377-48-7)	
LD50 oral rat	613 mg/kg
ATE US (oral)	613 mg/kg bodyweight

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified.
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified.

Iron oxide red (1309-37-1)	
IARC group	3 - Not classifiable

Silicon dioxide (cristobalite) (14808-60-7)	
IARC group	1 - Carcinogenic to humans

lithium sulphate (10377-48-7)	
NOAEL (chronic, oral, animal/male, 2 years)	15 mg/kg bodyweight

Reproductive toxicity : Not classified
 STOT-single exposure : Not classified

phenyl salicylate (118-55-8)	
STOT-single exposure	May cause respiratory irritation.

butyl 4-hydroxybenzoate (94-26-8)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

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adipic acid (124-04-9)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight/day
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.

SECTION 12: Ecological information

12.1. Toxicity

2',4'-dimethylacetoacetanilide (97-36-9)	
LC50 fish 1	250 (250 - 350) mg/l
salicylamide (65-45-2)	
LC50 fish 1	101 mg/l 96 h
EC50 Daphnia 1	75 mg/l 24 h
Iron oxide red (1309-37-1)	
EC50 Daphnia 1	> 100 mg/l
adipic acid (124-04-9)	
LC50 fish 1	>= 1000 mg/l 96 h
EC50 Daphnia 1	46 mg/l 48 h
lithium sulphate (10377-48-7)	
LC50 fish 1	30.3 mg/l read-across, 96 h
EC50 Daphnia 1	33.2 mg/l read across, 48 h
LOEC (chronic)	24.35 mg/l read-across lithium hydroxide monohydrate
NOEC (chronic)	17.35 mg/l read-across lithium hydroxide monohydrate

12.2. Persistence and degradability

phenyl salicylate (118-55-8)	
Persistence and degradability	Moderately biodegradable.
2',4'-dimethylacetoacetanilide (97-36-9)	
Biodegradation	25 % 28 d
salicylamide (65-45-2)	
Biodegradation	99 % 28 d
adipic acid (124-04-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 % 5 d

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12.3. Bioaccumulative potential

phenyl salicylate (118-55-8)	
Log Pow	3.82
Bioaccumulative potential	Not established.
2',4'-dimethylacetoacetanilide (97-36-9)	
Log Pow	1.4
salicylamide (65-45-2)	
Log Pow	1.31
adipic acid (124-04-9)	
BCF fish 1	3.162
Log Pow	0.093
lithium sulphate (10377-48-7)	
Log Pow	-4.38

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Transportation of Dangerous Goods

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

Tempilstik® 104 °F (40 °C), 131 °F (55 °C), 182 °F (83 °C), 200 °F (93 °C), 206 °F (97 °C), 213 °F (101 °C), 219 °F (104 °C), 225 °F (107 °C), 230 °F (110 °C), 239 °F (115 °C), 256 °F (124 °C), 263 °F (128 °C), 320 °F (160 °C), 325 °F (163 °C), 329 °F (165 °C), 374 °F (190 °C), 375 °F (191 °C), 383 °F (195 °C), 388 °F (198 °C), 392 °F (200 °C), 400 °F (204 °C), 413 °F (212 °C), 419 °F (215 °C), 550 °F (288 °C), 1400 °F (760 °C), 1450 °F (788 °C), 1500 °F (816 °C), 1550 °F (843 °C), 1600 °F (871 °C), 1650 °F (899 °C), 1700 °F (927 °C), 1800 °F (982 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 212 °F (100 °C), 257 °F (125 °C), 410 °F (210 °C), 554 °F (290 °C)

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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

adipic acid (124-04-9)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

phenyl salicylate (118-55-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

butyl 4-hydroxybenzoate (94-26-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2',4'-dimethylacetoacetanilide (97-36-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

salicylamide (65-45-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Iron oxide red (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Silicon dioxide (cristobalite) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

adipic acid (124-04-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

lithium sulphate (10377-48-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

phenyl salicylate (118-55-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

butyl 4-hydroxybenzoate (94-26-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2',4'-dimethylacetoacetanilide (97-36-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

salicylamide (65-45-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Iron oxide red (1309-37-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Tempilstik® 104 °F (40 °C), 131 °F (55 °C), 182 °F (83 °C), 200 °F (93 °C), 206 °F (97 °C), 213 °F (101 °C), 219 °F (104 °C), 225 °F (107 °C), 230 °F (110 °C), 239 °F (115 °C), 256 °F (124 °C), 263 °F (128 °C), 320 °F (160 °C), 325 °F (163 °C), 329 °F (165 °C), 374 °F (190 °C), 375 °F (191 °C), 383 °F (195 °C), 388 °F (198 °C), 392 °F (200 °C), 400 °F (204 °C), 413 °F (212 °C), 419 °F (215 °C), 550 °F (288 °C), 1400 °F (760 °C), 1450 °F (788 °C), 1500 °F (816 °C), 1550 °F (843 °C), 1600 °F (871 °C), 1650 °F (899 °C), 1700 °F (927 °C), 1800 °F (982 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 212 °F (100 °C), 257 °F (125 °C), 410 °F (210 °C), 554 °F (290 °C)

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Silicon dioxide (cristobalite) (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

adipic acid (124-04-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

lithium sulphate (10377-48-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

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All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

phenyl salicylate (118-55-8)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

butyl 4-hydroxybenzoate (94-26-8)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

2',4'-dimethylacetoacetanilide (97-36-9)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

Tempilstik® 104 °F (40 °C), 131 °F (55 °C), 182 °F (83 °C), 200 °F (93 °C), 206 °F (97 °C), 213 °F (101 °C), 219 °F (104 °C), 225 °F (107 °C), 230 °F (110 °C), 239 °F (115 °C), 256 °F (124 °C), 263 °F (128 °C), 320 °F (160 °C), 325 °F (163 °C), 329 °F (165 °C), 374 °F (190 °C), 375 °F (191 °C), 383 °F (195 °C), 388 °F (198 °C), 392 °F (200 °C), 400 °F (204 °C), 413 °F (212 °C), 419 °F (215 °C), 550 °F (288 °C), 1400 °F (760 °C), 1450 °F (788 °C), 1500 °F (816 °C), 1550 °F (843 °C), 1600 °F (871 °C), 1650 °F (899 °C), 1700 °F (927 °C), 1800 °F (982 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 212 °F (100 °C), 257 °F (125 °C), 410 °F (210 °C), 554 °F (290 °C)

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salicylamide (65-45-2)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

Iron oxide red (1309-37-1)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Silicon dioxide (cristobalite) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on KECI (Korean Existing Chemicals Inventory)

adipic acid (124-04-9)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

lithium sulphate (10377-48-7)

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

 **WARNING:** This product can expose you to 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5(3468-63-1)	X					
Silicon dioxide (cristobalite)(14808-60-7)	X					
Carbon black(1333-86-4)	X					

Component	State or local regulations
Iron oxide red(1309-37-1)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Silicon dioxide (cristobalite)(14808-60-7)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List
adipic acid(124-04-9)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 07/11/2018

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information : None.

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Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

NFPA health hazard

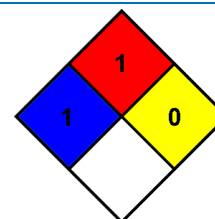
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



Indication of changes:
Regulatory information.

SDS Prepared by: The Redstone Group, LLC
6077 Frantz Rd.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product