

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/12/2015 Revision date: 10/30/2024 Supersedes: 10/4/2021

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : RG30-DOL
CAS-No. : Mixture
Product code : 5005

Other means of identification : Dolomite Resin Bonded Brick

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory Brick Recommended use : Industrial use

1.3. Supplier

Resco Products, Inc.
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
T 412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 1A H314 Causes severe skin burns and eye damage

Carcinogenicity Category 1A H350 May cause cancer (Dust when sawing or tear out, Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage

H350 - May cause cancer (Dust when sawing or tear out, Inhalation)

Precautionary statements (GHS US) : P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear eye protection, face protection, protective clothing, protective gloves, Safety shoes.

P223 - Do not allow contact with water. Avoid contact with the skin and the eyes

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P260 - Do not breathe Dust when sawing or tear out.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Magnesium Oxide	CAS-No.: 1309-48-4	50 – 75	Not classified
calcium oxide	CAS-No.: 1305-78-8	20 – 50	Skin Corr. 1A, H314
Phenolic Resin	CAS-No.: 108-95-2	1 – 5	Not classified

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Name	Product identifier	%	GHS US classification
graphite	CAS-No.: 7782-42-5	1 – 5	Not classified
Wax, Bulk Liquid	-	1 – 5	Not classified
cristobalite	CAS-No.: 14464-46-1	0.5 – 1	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 Get medical advice/attention if you feel unwell.

First-aid measures after inhalation Dust when sawing or tear out. Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Gently wash with plenty of soap and water. First-aid measures after skin contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Do NOT induce vomiting. Rinse mouth.

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

Symptoms/effects after skin contact May cause moderate irritation. Symptoms/effects after eye contact Causes serious eve irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Carbon dioxide. Dry powder. Sand.

Unsuitable extinguishing media Do not use extinguishing media containing water.

5.2. Specific hazards arising from the chemical

Fire hazard Reactions involving a fire hazard: see "Reactivity Hazard". Do not breathe fumes from fires or

vapors from decomposition.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions In case of fire, use powder extinguisher, "never use water". In case of fire, never use water.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection. Other information

dioxide, and hydrocarbon vapors.

Product will not burn, but does contain small quantities of chemicals which can generate toxic and/or irritating vapors when initially heated. Under fire conditions hazardous combustion

products such as carbon monoxide may be generated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : May release smoke when heated. Combustion products include carbon monoxide, carbon

6.1.1. For non-emergency personnel

Protective equipment Safety shoes. Protective gloves. Safety glasses. Protective clothing.

Emergency procedures Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up Mechanically recover the product

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Contact lenses should be removed. Keep away from any possible

contact with water, because of violent reaction and possible flash fire.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store this product in a dry location where it can be protected from the elements. Protect from

moisture.

Incompatible products Acids; reactive fluoridated, brominated, or phosphorous compounds; aluminum (may form

hydrogen gas); reactive metals; organic acid anhydrides; nitro-organic compounds;

interhalogenated compounds.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DC3	(Mixture)
1703	INITALLE

No additional information available

Magnesium Oxide (1309-48-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 10 mg/m³ inhalable dust

USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) [1] 10 mg/m³ respirable dust

calcium oxide (1305-78-8)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 2 mg/m³

cristobalite (14464-46-1)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 0.025 mg/m³ respirable dust

USA - OSHA - Occupational Exposure Limits

OSHA PEL (TWA) [1] 0.05 mg/m³ respirable dust

Phenolic Resin (108-95-2)

No additional information available

graphite (7782-42-5)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 2 mg/m³ (Respirable fraction)

Wax, Bulk Liquid

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountain with clean water. Dust when sawing or tear out. Provide adequate

ventilation to minimize dust concentrations.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear protective gloves.

Eye protection:

Dust when sawing or tear out. Chemical goggles or safety glasses

Skin and body protection:

Safety shoes

Respiratory protection:

Dust when sawing or tear out. Wear appropriate mask

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Solid in various shapes.

 Color
 : Black

 Odor
 : Resin Odor

 Odor threshold
 : No data available

 pH
 : No data available

 Melting point
 : > 2500 °F

Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20°C : No data available

Relative density : ≈ 3

Solubility : Reacts with water to form Ca(OH)2, Mg(OH)2, and heat.

Partition coefficient n-octanol/water (Log Pow) : No data available

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Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with water (moisture). Reacts with water to form Ca(OH)2, Mg(OH)2, and heat. Reacts with acids to form calcium salts while generating heat.

10.2. Chemical stability

No additional information available.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Water, humidity.

10.5. Incompatible materials

calcium oxide (1305-78-8)

рΗ

Acids.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon monoxide. Carbon dioxide. The phenolic resin binder may undergo incomplete combustion when temperature is applied to this product. The intent of this note is as follows: (1) to apprise the customer/user of the potential for incomplete combustion, and (2) to advise that the chemical compounds produced by incomplete combustion by poor air handling practices may exceed TLV's for specific air contaminates. The specific chemical compounds witch may be produced include but are not limited to: carbon monoxide, formaldehyde, phenol, alcohols, glycols, and other solvents.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity (inhalation)	Not classified
Magnesium Oxide (1309-48-4)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)
calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2500 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))
graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat	> 2000 mg/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))
Skin corrosion/irritation :	Causes severe skin burns.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)

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12.5 (0.13 %, 20 °C)

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Cristobalite (14464-46-1) PH		
graphite (7782-42-5) pH	cristobalite (14464-46-1)	
pH 7 (1.3 %) Serious eye damage/irritation : Assumed to cause serious eye damage pH 1 (10 %) calcium oxide (1305-78-8) pH 2.5 (0.13 %, 20 °C) cristobalite (14464-46-1) pH 6-7 graphite (7782-42-5) pH 7 (1.3 %) Respiratory or skin sensitization Germ cell mutagenitity : Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenitity : Not classified February : Not classified Germ cell mutagenitity : Not classified Germ cell mutagenitity : Not classified February : Not classified Strongonicity : Not classified Strongon	рН	6 – 7
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Magnesium Oxide (1309-48-4) pH	рН	7 (1.3 %)
Magnesium Oxide (1309-48-4) pH	Serious eye damage/irritation	: Assumed to cause serious eye damage
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Symptoms/effects after eye contact SECTION 12: Ecological information 12.1. Toxicity calcium oxide (1305-78-8) LC50 - Fish [1] EC50 - Fish [1] EC50 - Crustacea [1] EC50 - Crustacea [1] System, Fresh water, Read-across, GLP) Graphite (7782-42-5) LC50 - Fish [1] System, Fresh water, Read-across, GLP) CC50 - Crustacea [1] System, Fresh water, Read-across, Locomotor effect) EC50 - Fish [1] System, Fresh water, Read-across, Locomotor effect) EC50 - Crustacea [1] System, Fresh water, Read-across, Locomotor effect) EC50 - Fish [1] System, Fresh water, Read-across, GLP) Graphite (7782-42-5) LC50 - Fish [1] System, Fresh water, Read-across, GLP) EC50 - Crustacea [1] System, Fresh water, Read-across, GLP) EC50 - Crustacea [1] System, Fresh water, Experimental value, Lethal) EC50 - Crustacea [1] System, Fresh water, Experimental value, Behaviour) EC50 72h - Algae [1] System, Fresh water, Experimental value, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Coll numbers) 12.2. Persistence and degradability Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable		Not applicable (solid)
12.1. Toxicity calcium oxide (1305-78-8) LC50 - Fish [1]		
12.1. Toxicity calcium oxide (1305-78-8) LC50 - Fish [1]	Symptoms/effects after eye contact	: Causes serious eye irritation.
Calcium oxide (1305-78-8) LC50 - Fish [1]	SECTION 12: Ecological information	
LC50 - Fish [1] 51 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, GLP) EC50 - Crustacea [1] 49 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect) ErC50 algae 185 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) graphite (7782-42-5) LC50 - Fish [1] > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) EC50 72h - Algae [1] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) EC50 72h - Algae [2] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) 12.2. Persistence and degradability Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable		
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ErC50 algae 185 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) graphite (7782-42-5) LC50 - Fish [1]	EC50 - Crustacea [1]	
CS0 - Fish [1] S - 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)	ErC50 algae	185 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata,
LC50 - Fish [1] > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) EC50 72h - Algae [1] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) EC50 72h - Algae [2] > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable	graphite (7782-42-5)	
EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability Not applicable. Not applicable. Not applicable Not applica		> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
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Section 72h - Algae [2] Section 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) 12.2. Persistence and degradability Mot applicable.	EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static
12.2. Persistence and degradability Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable	EC50 72h - Algae [2]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static
Magnesium Oxide (1309-48-4) Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable	12.2 Persistence and degradability	system, Fresh water, Experimental value, Cell numbers)
Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable		
Chemical oxygen demand (COD) Not applicable		Not applicable
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calcium oxide (1305-78-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation data available.
calcium oxide (1305-78-8)	
Bioaccumulative potential	Not bioaccumulative.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Magnesium Oxide (1309-48-4)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
calcium oxide (1305-78-8)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
cristobalite (14464-46-1)	
Ecology - soil	No data available.
12.5. Other adverse effects	

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

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

SECTION 15: Regulatory information

15.1. US Federal regulations

RG30-DOL (Mixture)

Note This information must be included in all SDS's that are copied and distributed for this material.

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for: Wax, Bulk Liquid CAS-No. 1 – 5%

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Phenolic Resin (108-95-2)	
Subject to reporting requirements of United States SAR	A Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of	1000 lb
Lists)	
SARA Section 302 Threshold Planning Quantity	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns,
(TPQ)	or is in solution or molten form

15.2. International regulations

CANADA

Magnesium Oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

calcium oxide (1305-78-8)

Listed on the Canadian DSL (Domestic Substances List)

cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

Phenolic Resin (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

RG30-DOL (Mixture)
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U.S. - California - Proposition 65 - Other information

This product contains crystalline silica, a chemical known to the state of California to cause cancer. For more information go to WWW.P65Warnings.ca.gov

cristobalite (14464-46	6-1)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity		
		- Female	- Male		
Yes	No	No	No		

Component	State or local regulations
Magnesium Oxide (1309-48-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
	Substance List; U.S Pennsylvania - RTK (Right to Know) List
calcium oxide (1305-78-8)	U.S New Jersey - Right to Know Hazardous Substance List
Cristobalite (14464-46-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
·	Substance List; U.S Pennsylvania - RTK (Right to Know) List
Phenolic Resin (108-95-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
	Substance List; U.S Pennsylvania - RTK (Right to Know) List
Graphite (7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
	Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 10/30/2024

Other information : Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

Full text of H-phrases	
H314	Causes severe skin burns and eye damage
H350	May cause cancer

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.