

NaturalKote™ Elite 501 Stain

Safety Data Sheet

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

Date of issue: 09/05/2018

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Identification

Product form : Mixture
Product name : NaturalKote™ Elite 501 Stain

1.2. Recommended use and restrictions on use

Recommended use : Stain
Restrictions on use : No additional information available

1.3. Supplier

A&L Paint Co. LLC
112 Four Wheel Drive Suite 2
Rebersburg, PA 16872 - USA
T 814349-8060

1.4. Emergency telephone number

Emergency number : 888-980-9796 (M-F 7a-330p EST)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

GHS-US classification

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H317 - May cause an allergic skin reaction.

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water/...
P321 - Specific treatment (see supplemental first aid instruction on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point. in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

1.46% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
1.46% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
1.46% 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

Name	Product identifier	%	GHS-US classification
Polyalkylene Glycol Alkyl Ether	(CAS-No.) trade secret	0.1 - 2	Acute Tox. 4 (Inhalation:dust,mist), H332
Carbon black	(CAS-No.) 1333-86-4	0 - 2	Carc. 2, H35*

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Name	Product identifier	%	GHS-US classification
Iron oxide red	(CAS-No.) 1309-37-1	0 - 2	Aquatic Chronic 2, H411
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	(CAS-No.) 41556-26-7	0.01 - 0.2	Flam. Liq. 4, H227 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Diethanolamine	(CAS-No.) 111-42-2	0.00015	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
Toluene	(CAS-No.) 108-88-3	0.000031	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Ethylene oxide	(CAS-No.) 75-21-8	0 - <0.0000094	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335 STOT RE 1, H372
Propylene oxide	(CAS-No.) 75-56-9	0 - <0.0000094	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335
1,4-dioxane	(CAS-No.) 123-91-1	0 - <0.0000094	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Reactivity : No dangerous reactions known under normal conditions of use.

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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. Prevent fire fighting water from entering the environment.
- 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 all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid all eye and skin contact and do not breathe vapour and mist.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool well ventilated place.
- Incompatible products : Strong oxidizers. Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Polyalkylene Glycol Alkyl Ether (trade secret)		
Not applicable		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)		
Not applicable		
Toluene (108-88-3)		
ACGIH	Local name	Toluene
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Visual impair; female repro; pregnancy loss; A4; BEI
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
OSHA	Remark (OSHA)	(2) See Table Z-2.

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Toluene (108-88-3)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	375 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
Diethanolamine (111-42-2)		
ACGIH	Local name	Diethanolamine
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
ACGIH	Remark (ACGIH)	Liver & kidney dam
NIOSH	NIOSH REL (TWA) (mg/m ³)	15 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
Ethylene oxide (75-21-8)		
ACGIH	Local name	Ethylene oxide
ACGIH	ACGIH TWA (mg/m ³)	1.8 mg/m ³
ACGIH	ACGIH TWA (ppm)	1 ppm
ACGIH	Remark (ACGIH)	Cancer; CNS impair
OSHA	OSHA PEL (TWA) (mg/m ³)	1.8 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (STEL) (mg/m ³)	9 mg/m ³
OSHA	OSHA PEL (STEL) (ppm)	5 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	1.8 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	0.1 ppm
NIOSH	NIOSH REL (ceiling) (mg/m ³)	9 mg/m ³
NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm
Propylene oxide (75-56-9)		
ACGIH	Local name	Propylene oxide
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; DSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
1,4-dioxane (123-91-1)		
ACGIH	Local name	1,4-Dioxane
ACGIH	ACGIH TWA (mg/m ³)	72 mg/m ³
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Liver dam
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	360 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

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1,4-dioxane (123-91-1)		
OSHA	Regulatory reference (US-OSHA)	OSHA
NIOSH	NIOSH REL (ceiling) (mg/m ³)	3.6 mg/m ³
NIOSH	NIOSH REL (ceiling) (ppm)	1 ppm
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
Carbon black (1333-86-4)		
ACGIH	Local name	Carbon black
ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
ACGIH	Remark (ACGIH)	Bronchitis
OSHA	OSHA PEL (TWA) (mg/m ³)	3.5 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	3.5 mg/m ³
NIOSH	NIOSH REL (STEL) (mg/m ³)	0.1 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls

: Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use only outdoors or in a well-ventilated area.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Nitrile rubber. Butyl rubber. Natural rubber

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: No data available
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

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Flammability (solid, gas)	: Non flammable.
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
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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

Unknown acute toxicity (GHS US)	1.46% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 1.46% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 1.46% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Polyalkylene Glycol Alkyl Ether (trade secret)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2 mg/l/4h
ATE US (vapours)	2 mg/l/4h
ATE US (dust,mist)	2 mg/l/4h

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 oral rat	2369 (2369 - 3920) mg/kg
ATE US (oral)	2369 mg/kg bodyweight

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg EU Method B.1 (Acute Toxicity (Oral))
LC50 inhalation rat (mg/l)	> 20 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)
ATE US (oral)	5580 mg/kg bodyweight

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Diethanolamine (111-42-2)	
LD50 oral rat	1100 mg/kg
ATE US (oral)	1100 mg/kg bodyweight
Ethylene oxide (75-21-8)	
LD50 oral rat	330 mg/kg bodyweight
LC50 inhalation rat (ppm)	1741 ppm/4h
ATE US (oral)	330 mg/kg bodyweight
ATE US (gases)	1741 ppmv/4h
Propylene oxide (75-56-9)	
ATE US (oral)	500 mg/kg bodyweight
ATE US (dermal)	300 mg/kg bodyweight
ATE US (gases)	700 ppmv/4h
ATE US (vapours)	3 mg/l/4h
ATE US (dust,mist)	0.5 mg/l/4h
1,4-dioxane (123-91-1)	
LD50 oral rat	5150 mg/kg
LC50 inhalation rat (mg/l)	> 155 mg/l 1 h
ATE US (oral)	5150 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
Carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg
LC50 inhalation rat (mg/l)	> 4.6 mg/m ³ 4 h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Toluene (108-88-3)	
IARC group	3 - Not classifiable
Diethanolamine (111-42-2)	
IARC group	2B - Possibly carcinogenic to humans
Ethylene oxide (75-21-8)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens
Propylene oxide (75-56-9)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
1,4-dioxane (123-91-1)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
Iron oxide red (1309-37-1)	
IARC group	3 - Not classifiable
Carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans, Inhalation of dust
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
Ethylene oxide (75-21-8)	
STOT-single exposure	May cause respiratory irritation.
Propylene oxide (75-56-9)	
STOT-single exposure	May cause respiratory irritation.
1,4-dioxane (123-91-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Toluene (108-88-3)	
LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diethanolamine (111-42-2)	
LOAEL (oral, rat, 90 days)	14 mg/kg bodyweight/day 14 mg/kg female; 25 mg/kg male
LOAEL (dermal, rat/rabbit, 90 days)	mg/kg bodyweight/day
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Ethylene oxide (75-21-8)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Additional information	Affected organs: nervous system

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 fish 1	0.97 mg/l 96 h
EC50 Daphnia 1	20 mg/l 24 h
Toluene (108-88-3)	
LC50 fish 1	5.5 mg/l
EC50 Daphnia 2	3.78 mg/l
ErC50 (algae)	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l
Diethanolamine (111-42-2)	
LC50 fish 1	1460 mg/l 96 h
EC50 Daphnia 1	30.1 mg/l 48 h
ErC50 (algae)	2.2 mg/l 96 h
1,4-dioxane (123-91-1)	
EC50 Daphnia 1	> 1000 mg/l 48 h
NOEC chronic fish	> 103 mg/l 32 d
NOEC chronic crustacea	1000 mg/l 21 d
Iron oxide red (1309-37-1)	
EC50 Daphnia 1	> 100 mg/l

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12.2. Persistence and degradability

NaturalKote™ Elite 501 Stain	
Persistence and degradability	Not established.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Biodegradation	38 % 28 d
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable.
Diethanolamine (111-42-2)	
Persistence and degradability	Readily biodegradable.
Ethylene oxide (75-21-8)	
Persistence and degradability	Readily biodegradable.
Carbon black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

NaturalKote™ Elite 501 Stain	
Bioaccumulative potential	Not established.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Log Pow	0.37
Toluene (108-88-3)	
Bioconcentration factor (BCF REACH)	90
Log Kow	2.73
Diethanolamine (111-42-2)	
Log Pow	-1.71
Bioaccumulative potential	Not expected to bioaccumulate.
Ethylene oxide (75-21-8)	
Log Pow	-0.3

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

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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

Toluene (108-88-3)	
Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb
Diethanolamine (111-42-2)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
Ethylene oxide (75-21-8)	
Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	10 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
Propylene oxide (75-56-9)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
1,4-dioxane (123-91-1)	
Subject to reporting requirements of United States SARA Section 313	
Listed on EPA Hazardous Air Pollutant (HAPS)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	100 lb

15.2. International regulations

CANADA

Polyalkylene Glycol Alkyl Ether (trade secret)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Diethanolamine (111-42-2)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Ethylene oxide (75-21-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
1,4-dioxane (123-91-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Iron oxide red (1309-37-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Carbon black (1333-86-4)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

EU-Regulations

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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Toluene (108-88-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Diethanolamine (111-42-2)
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)
Carbon black (1333-86-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)
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)
Toluene (108-88-3)
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 PICCS (Philippines Inventory of Chemicals and Chemical Substances) 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
Diethanolamine (111-42-2)
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 Taiwan National Chemical Inventory Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Chinese Catalog of Hazardous Chemicals. Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC). Listed on the Korean ECL (Existing Chemicals List) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Ethylene oxide (75-21-8)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
Propylene oxide (75-56-9)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
1,4-dioxane (123-91-1)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)
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

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Carbon black (1333-86-4)

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).

15.3. US State regulations

⚠ WARNING: This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Prop 65						
Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Toluene(108-88-3)		X				7000 µg/day oral. 13000 µg/day inhalation
Diethanolamine(111-42-2)	X					
Ethylene oxide(75-21-8)	X	X	X	X	2 µg/day	20 µg/day
Propylene oxide(75-56-9)	X					
1,4-dioxane(123-91-1)	X				30 µg/day	
Carbon black(1333-86-4)	X					

Component	State or local regulations
Toluene(108-88-3)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Diethanolamine(111-42-2)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations 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
Ethylene oxide(75-21-8)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) U.S. - Pennsylvania - RTK (Right to Know) List U.S. - West Virginia - Air Quality - Toxic Air Pollutant Emission Limits
Propylene oxide(75-56-9)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List U.S. - West Virginia - Air Quality - Toxic Air Pollutant Emission Limits

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Component	State or local regulations
1,4-dioxane(123-91-1)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S. - Idaho - Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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
Carbon black(1333-86-4)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: OTHER INFORMATION

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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. OSHA 29CFR 1910.1200 Hazard Communication Standard.

Other information

: None.

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Full text of H-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 4	Flammable liquids, Category 4
Muta. 1B	Germ cell mutagenicity, Category 1B
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.

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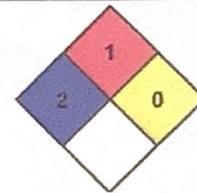
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H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	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
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
	TSCA: Toxic Substances Control Act

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- 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.



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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