



SAFETY DATA SHEET

Revision Date: 03/13/2012

Print Date: 4/10/2012

MSDS Number: R0404668

Version: 1.2

CAT NOROX MCP FRED
704035

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Nexeo Solutions	Regulatory Information Number	1-800-325-3751
PO Box 2458	Telephone	1-800-531-7106
Columbus, OH 43216	Emergency telephone number	1-855-639-3648

Product name CAT NOROX MCP FRED

Product code 704035

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, red

DANGER! POISON! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. EYE EFFECTS MAY BE DELAYED. HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF SWALLOWED. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS. MAY BE FATAL IF INHALED. CAUSES SEVERE BURNS OF THE EYES AND SKIN.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness. Eye effects may be delayed.



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Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. May cause allergic skin reaction. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage. Passage of this material into the body through the skin is possible, and skin contact may be harmful.

Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions), Liver

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: bleaching of skin and hair, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, Lung irritation, bronchitis, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), temporary changes in behavior, Lowered blood pressure, mild, temporary changes in the liver, respiratory depression (slowing of the breathing rate), narcosis (dazed or sluggish feeling), lung edema (fluid buildup in the lung tissue), seizures, Convulsions, coma

Target Organs



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Based on animal studies, exposure to methyl ethyl ketone (MEK) increases the onset of peripheral neuropathy caused by exposure to methyl butyl ketone (MBK), and/or n-hexane, and/or ethyl butylketone. MEK alone has not been shown to cause peripheral neuropathy., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, liver abnormalities, male reproductive effects, kidney damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, liver abnormalities

Carcinogenicity

Cumene has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain. Cumene is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration. Hydrogen peroxide caused cancer in mice when it was given in the drinking water, but not when placed on the skin or when injected under the skin. The relevance of these findings to humans is uncertain.

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed., This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain., Cumene (isopropylbenzene) did not cause harm to the unborn pup in laboratory animal studies, even at levels which were harmful to the pregnant animal., Dimethyl phthalate has caused birth defects in laboratory animals, but only when injected at very high doses into the abdomen of the pregnant animal. It had no effect on the fetus when given to pregnant mice through a feeding tube.

Other information

This material (or a component) has been both positive and negative in tests for mutagenicity. The relevance of this finding to human health is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / trade secret no.	Concentration
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CUMENE HYDROPEROXIDE	80-15-9	>=40-<50%
DIMETHYL PHTHALATE	131-11-3	>=20-<30%
METHYL ETHYL KETONE PEROXIDE	1338-23-4	>=15-<20%
PROPRIETARY PHLEGMATIZER		>=10-<15%
CUMENE	98-82-8	>=5-<10%
ACETOPHENONE	98-86-2	>=1.5-<5%
METHYL ETHYL KETONE	78-93-3	>=1-<1.5%
HYDROGEN PEROXIDE	7722-84-1	>=1-<1.5%
PHENYL-2 PROPANOL-2	617-94-7	>=1-<1.5%

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

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Hazards: Pulmonary edema may be delayed. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

Treatment: No information available.

5. FIREFIGHTING MEASURES**Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, acetic acid

Precautions for fire-fighting

Decomposition can release oxygen which will increase fire hazard if in contact with combustibles. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up



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Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

CUMENE HYDROPEROXIDE		80-15-9
WEEL	time weighted average	1 ppm
WEEL	time weighted average	6 mg/m ³
DIMETHYL PHTHALATE		131-11-3
ACGIH	time weighted average	5 mg/m ³
NIOSH	Recommended exposure limit (REL):	5 mg/m ³
OSHA Z1	Permissible exposure limit	5 mg/m ³
METHYL ETHYL KETONE PEROXIDE		1338-23-4
ACGIH	Ceiling Limit Value:	0.2 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	0.2 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	1.5 mg/m ³
CUMENE		98-82-8

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ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	50 ppm
NIOSH	Recommended exposure limit (REL):	245 mg/m3
OSHA Z1	Permissible exposure limit	50 ppm
OSHA Z1	Permissible exposure limit	245 mg/m3
ACETOPHENONE		98-86-2
ACGIH	time weighted average	10 ppm
WEEL	time weighted average	10 ppm
WEEL	time weighted average	50 mg/m3
METHYL ETHYL KETONE		78-93-3
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	300 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	590 mg/m3
NIOSH	Short term exposure limit	300 ppm
NIOSH	Short term exposure limit	885 mg/m3
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	590 mg/m3
HYDROGEN PEROXIDE		7722-84-1
ACGIH	time weighted average	1 ppm
NIOSH	Recommended exposure limit (REL):	1 ppm
NIOSH	Recommended exposure limit (REL):	1.4 mg/m3
OSHA Z1	Permissible exposure limit	1 ppm
OSHA Z1	Permissible exposure limit	1.4 mg/m3

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant.



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Eye protection

Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist. Maintain eye wash station in immediate work area.

Skin and body protection

Wear appropriate chemical impervious clothing and boots whenever there is potential for skin contact with product. Launder clothing before reuse. Maintain safety shower at all locations where skin contact could occur. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	red
Odour	slight
Flash point	(>)199.99 °F / 93.33 °C Cleveland open cup
Vapour pressure	20.000 hPa @ 77 °F / 25 °C Calculated Vapor Pressure
Relative vapour density	(>)1 AIR=1
Density	1 g/cm ³ @ 68.00 °F / 20.00 °C
Water solubility	slightly soluble



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10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

heat, Exposure to sunlight.

Incompatible products

aluminum, Amines, chlorinated solvents, cobalt compounds, Combustible material, Copper, Copper alloys, Cyanides, Iron, Metals, metal salts, nitrates, Nitric acid, Organic materials, oxidizable substances, phenols, Reducing agents, Strong acids, strong alkalis, Strong bases, Strong oxidizing agents, transition metal salts, vermiculite, Zinc, sulphuric acid

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - : no data available
Product

Acute oral toxicity - Components

CUMENE : LD 50: 382 mg/kg Species: Rat

HYDROPEROXIDE

DIMETHYL : LD 50: 2,400 mg/kg Species: Rat

PTHALATE



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CUMENE	: LD 50: 2,910 mg/kg Species: Rat	Remarks: This data record is no longer present in the Ariel database
	LD 50: 1,400 mg/kg Species: Rat	
ACETOPHENONE	: LD 50: 815 mg/kg Species: Rat	
METHYL ETHYL KETONE	: LD 50: 2,300 - 3,500 mg/kg Species: Rat	
HYDROGEN PEROXIDE	: LD 50: 2 g/kg Species: Mouse	
PHENYL-2 PROPANOL-2	: LD 50: 1,300 mg/kg Species: Rat	
	LD 50: 1,950 mg/kg Species: Mouse	Remarks: This data record is no longer present in the Ariel database

Acute inhalation toxicity

Acute inhalation toxicity - Product : no data available

Acute inhalation toxicity - Components

CUMENE	: LD 50: 220 ppm Exposure time: 4 h Species: Rat
HYDROPEROXIDE	
METHYL ETHYL KETONE PEROXIDE	: LC 50: 200 mg/l Exposure time: 4 h Species: Rat
CUMENE	: LC 50: 8,000 mg/l Exposure time: 4 h Species: Rat
ACETOPHENONE	: LC 50: 1,200 mg/m ³ Exposure time: 4 h Species: Mouse
METHYL ETHYL KETONE	: LC 50: 11,700 mg/l Exposure time: 4 h Species: Rat
HYDROGEN PEROXIDE	: LC 50: 2 g/m ³ Exposure time: 4 h Species: Rat

Acute dermal toxicity

Acute dermal toxicity - Product : no data available

Acute dermal toxicity - Components

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CUMENE HYDROPEROXIDE	: LD 50: 500 mg/kg Species: Rabbit
CUMENE	: LD 50: 3.15 g/kg Species: Rabbit
ACETOPHENONE	: LD 50: 16,425 mg/kg Species: Rabbit
METHYL ETHYL KETONE	: LD 50: > 5 g/kg Species: Rabbit
HYDROGEN PEROXIDE	: LD 50: 4,060 mg/kg Species: Rat
PHENYL-2 PROPANOL- 2	: LD 50: 4,300 mg/kg Species: Rabbit

Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Bioaccumulation

Bioaccumulation - Product : no data available

Bioaccumulation - Components

DIMETHYL PHTHALATE	: Species: Green algae (Chlorella pyrenoidosa) Exposure time: 24 h Concentration: 100 mg/l Bioconcentration factor (BCF): 162 Method: Not reported
	Species: Bluegill (Lepomis macrochirus) Exposure time: 21 d Concentration: 0.00873 mg/l Bioconcentration factor (BCF): 57 Method: Flow through
	Species: Bluegill (Lepomis macrochirus) Concentration: 0.00874 mg/l Bioconcentration factor (BCF): 57 Method: Flow through

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Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

CUMENE : LC 50: 2.7 mg/l
Exposure time: 96 h
Species: Rainbow trout,donaldson trout (Oncorhynchus mykiss)
Method: Renewal
Remarks: Mortality

METHYL ETHYL KETONE : LC 50: 3,130 - 3,320 mg/l
Exposure time: 96 h
Species: Fathead minnow (Pimephales promelas)
Test Type: flow-through test
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates.

Toxicity to daphnia and other aquatic invertebrates. - Product : no data available

Toxicity to daphnia and other aquatic invertebrates. - Components

CUMENE : EC 50: 7.9 - 14.1 mg/l
Exposure time: 48 h
Species: Water flea (Daphnia magna)
Method: Static
Remarks: Intoxication

METHYL ETHYL KETONE : EC 50: 4,025 - 6,440 mg/l
Exposure time: 48 h

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Species: Water flea (Daphnia magna)
Test Type: static test
Remarks: Intoxication

Toxicity to algae

Toxicity to algae - Product : no data available

Toxicity to bacteria

Toxicity to bacteria - Product : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

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UN	3105	PEROXIDO ORGANICO TIPO D, LIQUIDO (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	(74G)
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	(74G)
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	
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TRANSPORT CANADA - INLAND WATERWAYS

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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TRANSPORT CANADA - RAIL

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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TRANSPORT CANADA - ROAD

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UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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U.S. DOT - INLAND WATERWAYS

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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U.S. DOT - RAIL

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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U.S. DOT - ROAD

UN	3105	Organic peroxide type D, liquid (METHYL ETHYL KETONE PEROXIDE, <=17%, CUMYL HYDROPEROXIDE, <44%)	5.2	II
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***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION**California Prop. 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

CUMENE

SARA Hazard Classification

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SARA 311/312 Classification

Reactivity Hazard
Acute Health Hazard
Chronic Health Hazard

SARA 313 Component(s)

CUMENE HYDROPEROXIDE	44.00 %
DIMETHYL PHTHALATE	22.00 %
CUMENE	5.00 %
ACETOPHENONE	3.00 %

New Jersey RTK Label Information

CUMENE HYDROPEROXIDE	80-15-9
DIMETHYL PHTHALATE	131-11-3
METHYL ETHYL KETONE PEROXIDE	1338-23-4
PROPRIETARY PHLEGMATIZER	
CUMENE	98-82-8
ACETOPHENONE	98-86-2
METHYL ETHYL KETONE	78-93-3
HYDROGEN PEROXIDE	7722-84-1

Pennsylvania RTK Label Information

CUMENE HYDROPEROXIDE	80-15-9
DIMETHYL PHTHALATE	131-11-3
METHYL ETHYL KETONE PEROXIDE	1338-23-4
PROPRIETARY PHLEGMATIZER	
CUMENE	98-82-8
ACETOPHENONE	98-86-2
METHYL ETHYL KETONE	78-93-3
HYDROGEN PEROXIDE	7722-84-1

Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)

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Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)

22 lbs

Reportable quantity-Components

CUMENE HYDROPEROXIDE

80-15-9

10 lbs

	HMIS	NFPA
Health	3	3
Flammability	2	2
Physical hazards	2	
Instability		2
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO Solutions' Environmental Health and Safety Department (1-800-325-3751).