



SAFETY DATA SHEET

Revision Date: 10/07/2021

Print Date: 5/21/2012

SDS #: 000000213550

Version: 1.0

State 48 Recycling Inc. NON-CHLOR BRAKE
CLNR
Product Code: MBC55

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 State 48 Recycling Inc. NON-CHLOR BRAKE CLNR

Product code MBC55

Product Use Description No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, Water-white

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. HARMFUL IF SWALLOWED. MAY CAUSE BLINDNESS. MAY



BE HARMFUL IF INHALED.

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Potential Health Effects**Exposure routes**

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

Eye contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. 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.

Ingestion

Swallowing this material may be harmful. 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. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions), Liver, Kidney, Central nervous system, pancreas, Heart, male reproductive system, Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), muscle cramps, Lowered blood pressure, pain in the abdomen and lower back, respiratory depression (slowing of the breathing rate), Blurred vision, Shortness of breath, Lack of coordination, confusion, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), kidney damage, visual impairment (including blindness), coma

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Target Organs

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans., Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation., Breathing isopropanol vapors has caused damage to the lining of the middle ear in experimental animals. The relevance of this finding to humans is uncertain., Exposure to lethal concentrations of methanol has been shown to cause damage to organs including liver, kidneys, pancreas, heart, lungs and brain. Although this rarely occurs, survivors of severe intoxication may suffer from permanent neurological damage., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:., mild, reversible kidney effects, liver abnormalities, nasal damage, central nervous system damage, testis damage, lung damage, Over exposure to this material (or its components) has been suggested as a cause of the following effects in humans:., central nervous system effects, visual impairment

Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity.

Reproductive hazard

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., Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration
N-HEXANE	110-54-3	>=50-<60%
METHANOL	67-56-1	>=10-<15%
ISOPROPANOL	67-63-0	>=10-<15%
METHYL-3-PENTANE	96-14-0	>=1.5-<5%
METHYLCYCLOPENTANE	96-37-7	>=1.5-<5%
METHYL-2-PENTANE	107-83-5	>=1.5-<5%

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4. FIRST AID MEASURES**Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. 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

Hazards: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.

Treatment: No information available.

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5. FIREFIGHTING MEASURES**Suitable extinguishing media**Dry chemical, Carbon dioxide (CO₂), Water spray**Hazardous combustion products**

carbon dioxide and carbon monoxide, Hydrocarbons

Precautions for fire-fighting

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. 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

Flammable Liquid Class IB

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. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

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. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

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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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area, away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

N-HEXANE		110-54-3
ACGIH	time weighted average	50 ppm
NIOSH	Recommended exposure limit (REL):	50 ppm
NIOSH	Recommended exposure limit (REL):	180 mg/m ³
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	1,800 mg/m ³
METHANOL		67-56-1
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	250 ppm
NIOSH	Recommended exposure limit (REL):	200 ppm
NIOSH	Recommended exposure limit (REL):	260 mg/m ³
NIOSH	Short term exposure limit	250 ppm
NIOSH	Short term exposure limit	325 mg/m ³
OSHA Z1	Permissible exposure limit	200 ppm
OSHA Z1	Permissible exposure limit	260 mg/m ³
ISOPROPANOL		67-63-0
ACGIH	time weighted average	200 ppm
ACGIH	Short term exposure limit	400 ppm
NIOSH	Recommended exposure	400 ppm

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NIOSH	limit (REL): Recommended exposure	980 mg/m3
NIOSH	limit (REL): Short term exposure limit	500 ppm
NIOSH	Short term exposure limit	1,225 mg/m3
OSHA Z1	Permissible exposure limit	400 ppm
OSHA Z1	Permissible exposure limit	980 mg/m3
METHYL-3-PENTANE		96-14-0
ACGIH	time weighted average	500 ppm
ACGIH	Short term exposure limit	1,000 ppm
NIOSH	Recommended exposure	100 ppm
NIOSH	limit (REL): Recommended exposure	350 mg/m3
NIOSH	limit (REL): Ceiling Limit Value and Time Period (if specified):	510 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3
METHYL-2-PENTANE		107-83-5
ACGIH	time weighted average	500 ppm
ACGIH	Short term exposure limit	1,000 ppm
NIOSH	Recommended exposure	100 ppm
NIOSH	limit (REL): Recommended exposure	350 mg/m3
NIOSH	limit (REL): Ceiling Limit Value and Time Period (if specified):	510 ppm
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 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

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

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Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

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 Form liquid
Colour	Water-white
Odour	no data available
Boiling point/boiling range	148.5 °F / 64.7 °C @ 1,013.25 hPa Calculated Phase Transition Liquid/Gas
Melting point/range	no data available
Sublimation point	no data available
pH	no data available
Flash point	-8 °F / -22 °C Tag closed cup
Ignition temperature	no data available
Evaporation rate	no data available
Lower explosion limit/Upper explosion limit	1.1 %(V) / 36 %(V) Calculated Explosive Limit
Particle size	no data available
Vapour pressure	203.979 hPa @ 77 °F / 25 °C Calculated Vapor

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Relative vapour density	Pressure
Density	no data available
	0.695 g/cm ³
	5.790 lb/gal @ 68 °F / 20 °C
Bulk density	No data
Water solubility	no data available
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
log Pow	no data available
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Solids in Solution	no data available
Decomposition temperature	no data available
Burning number	no data available
Dust explosion constant	no data available
Minimum ignition energy	no data available

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

Acids, Aldehydes, alkalis, aluminum, Amines, Ethylene oxide, halogenated hydrocarbons, halogens, isocyanates, Lead, peroxides, sodium, strong bases, Strong oxidizing agents, Zinc, Do not use with aluminum equipment at temperatures above 120 degrees F.

Hazardous decomposition products

carbon dioxide and carbon monoxide, formaldehyde-like, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

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Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

N-HEXANE	: LD 50 Rat: 25 g/kg
METHANOL	: LD L0 Human: 300 mg/kg
ISOPROPANOL	: no data available METHYL-
3-PENTANE	: no data available
METHYLCYCLOPENTANE	: LD 50 Rat: > 3,200 mg/kg
METHYL-2-PENTANE	: no data available

Acute inhalation toxicity

N-HEXANE	: LC 50 Rat: 48000 ppm; 4 h
METHANOL	: LC 50 Rat: 64000 ppm; 4 h
ISOPROPANOL	: LC 50 Rat: 16000 ppm; 4 h
METHYL-3-PENTANE	: no data available
METHYLCYCLOPENTANE	: LC 50 Rat: > 4044 ppm; 4 h
METHYL-2-PENTANE	: LC 50 Rat: 3125 ppm; 4 h

Acute dermal toxicity

N-HEXANE	: LD 50 Rabbit: (>) 1.3 g/kg
METHANOL	: LD 50 Rabbit:

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	12,800 mg/kg
ISOPROPANOL	: no data available
METHYL-3-PENTANE	: no data available
METHYLCYCLOPENTANE	: LD 50 Rabbit: > 86,700 mg/kg
METHYL-2-PENTANE	: no data available

12. ECOLOGICAL INFORMATION**Biodegradability**

N-HEXANE	: no data available
METHANOL	: 99 % Exposure time: 28 d Method: OECD Test Guideline 301D
ISOPROPANOL	: no data available
METHYL-3-PENTANE	: no data available
METHYLCYCLOPENTANE	: no data available
METHYL-2-PENTANE	: no data available

Bioaccumulation

N-HEXANE	: no data available
METHANOL	: Species: Green algae (Chlorella fusca vacuolata) Exposure time: 24 h Dose: 0.05 mg/l Bioconcentration factor (BCF): 28,400 Method: Static
ISOPROPANOL	: no data available

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METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : no data available

Ecotoxicity effects**Toxicity to fish**

N-HEXANE : no data available

METHANOL : 96 h static test LC 50 Rainbow trout,donaldson trout
(Oncorhynchus mykiss): 18,000.00 - 20,000.00 mg/lISOPROPANOL : 96 h LC 50 Fathead minnow (Pimephales promelas):
5,770.00 - 7,450.00 mg/l Method: Flow through;
Mortality

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : 96 h LC 50 Fish: 72.00 mg/l

METHYL-2-PENTANE : no data available

Toxicity to daphnia and other aquatic invertebrates.

N-HEXANE : no data available

METHANOL : 48 h static test EC 50 Water flea (Daphnia magna): >
10,000.00 mg/lISOPROPANOL : 24 h static test LC 50 Water flea (Daphnia magna): >
10,000.00 mg/l Method: Static Mortality

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : 48 h EC 50 Water flea (Daphnia magna): 3.78 mg/l

METHYL-2-PENTANE : no data available

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Toxicity to algae

N-HEXANE : no data available

METHANOL : no data available

ISOPROPANOL : no data available

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : no data available

Toxicity to bacteria

N-HEXANE : no data available

METHANOL : no data available

ISOPROPANOL : no data available

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : no data available

Biochemical Oxygen Demand (BOD)

N-HEXANE : no data available

METHANOL : no data available

ISOPROPANOL : no data available

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : no data available

Chemical Oxygen Demand (COD)

N-HEXANE : no data available

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METHANOL : no data available

ISOPROPANOL : no data available

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : no data available

Additional ecological information

N-HEXANE : no data available

METHANOL : no data available

ISOPROPANOL : no data available

METHYL-3-PENTANE : no data available

METHYLCYCLOPENTANE : no data available

METHYL-2-PENTANE : 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**

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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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U.S. DOT - ROAD

UN 1993	Flammable liquids, n.o.s. (NORMAL-HEXANE, METHANOL)	3		II	
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U.S. DOT - RAIL

UN 1993	Flammable liquids, n.o.s. (NORMAL-HEXANE, METHANOL)	3		II	
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U.S. DOT - INLAND WATERWAYS

UN 1993	Flammable liquids, n.o.s. (NORMAL-HEXANE, METHANOL)	3		II	
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TRANSPORT CANADA - ROAD

UN 1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE)	3		II	
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TRANSPORT CANADA - RAIL

UN 1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE, METHANOL)	3		II	
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TRANSPORT CANADA - INLAND WATERWAYS

UN 1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE, METHANOL)	3		II	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE, METHANOL)	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE, METHANOL)	3		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1993	FLAMMABLE LIQUID, N.O.S. (NORMAL-HEXANE, METHANOL)	3	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1993	LIQUIDO INFLAMABLE, N.E.P. (NORMAL-HEXANE, METHANOL)	3	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.	BENZENE
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	BENZENE

SARA Hazard Classification

Fire Hazard

Acute Health Hazard

Chronic Health Hazard

SARA 313 Component(s)

N-HEXANE	53.35 %
METHANOL	11.37 %

New Jersey RTK Label Information

N-HEXANE

110-54-3

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METHANOL	67-56-1
ISOPROPANOL	67-63-0
METHYL-3-PENTANE	96-14-0
METHYLCYCLOPENTANE	96-37-7
METHYL-2-PENTANE	107-83-5

Pennsylvania RTK Label Information

N-HEXANE	110-54-3
METHANOL	67-56-1
ISOPROPANOL	67-63-0
METHYL-3-PENTANE	96-14-0
METHYLCYCLOPENTANE	96-37-7
METHYL-2-PENTANE	107-83-5

Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	9371 lbs
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Reportable quantity-Components

N-HEXANE	110-54-3	5000 lbs
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	HMIS	NFPA
Health	2*	2
Flammability	3	3
Physical hazards	0	
Instability		0
Specific Hazard	--	--

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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).