

SAFETY DATA SHEET

Revision Date: 06/16/2011

Print Date: 1/22/2013

MSDS Number: R0371469

Version: 1.10

"WORO 18 OC 38" (1854)"
52844

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 "WORO 18 OC 38" (1854)"

Product code 52844
Product Use Description No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: solid, White

CAUTION! DUST MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

Fibers or dust from fibers may cause eye irritation from the material scratching the eyes. Symptoms include itching, 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. Contact with fibrous glass or its dust can cause skin irritation. Symptoms may include redness and an itchy, sometimes bumpy, rash. The rash is aggravated by rubbing or scratching which may even force the glass fibers into the skin. With repeated exposure, some individuals will develop a hardening of the skin and a resistance to the irritant effects of the fibers. Skin irritation is common in individuals newly exposed to fibrous glass.

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Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

This material is a dust or may produce dust. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflammation of the airways of the lungs). Symptoms include coughing and shortness of breath. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.). Breathing of glass fibers can cause short-term irritation of the mouth, nose, and throat. Other symptoms may include coughing and wheezing. Because of the structure of the fibers, they do not enter the lungs (See Other Health Effects).

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)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

Studies with workers employed up to 40 years in the manufacture of fiberglass have shown no increase in cancer due to fiberglass exposure. Breathing continuous filament fiberglass did not cause cancer in laboratory animals. Studies using artificial implantation or injection of glass fibers into animals have resulted in cancer. Those studies are not considered relevant to human exposure.

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Other information

Continuous filament fiber glass is a type of man-made mineral fiber. Fiber diameter is the most important factor in determining whether or not fibers can get into the lungs if breathed. Fibers that can enter the lungs are called respirable fibers. According to the National Institute for Occupational Safety and Health (NIOSH), fibers with diameters greater than 3.5 microns are not respirable. This product is

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composed of glass strands with diameters greater than 3.5 microns, and therefore, if breathed, would not enter the lungs. Instead, they would be stopped in the upper respiratory tract where they would be removed by natural mechanisms such as filtering by nasal hairs. Continuous filament fiber glass products that are chopped, crushed, or severely mechanically processed during manufacturing or use may contain a very small amount of respirable fibers that could reach the deep lung. The measured airborne concentration of these respirable fibers in areas where severe processing of fiberglass occurred has been shown to be extremely low and well below the TLV. Repeated or prolonged exposure to respirable glass fibers has caused fibrosis, lung cancer and mesothelioma in long-term studies in laboratory animals.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS-No.

Concentration

FIBERGLASS

65997-17-3

<=100%

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

Wash contacted areas with mild soap and running water. Use a washcloth to help remove fibers. Do not rub or scratch affected areas since this can force fibers into the skin. Seek medical attention if irritation persists. Remove material from clothing using vacuum equipment (never use compressed air). Wash work clothing separately from other clothing before reuse. Wipe out the washer or sink to prevent loose fibers from getting on other clothing.

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.

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Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray

Hazardous combustion products

Hydrogen, In a sustained fire, sizing and binders may decompose, releasing combustion products including carbon dioxide, carbon monoxide, various hydrocarbons, and water.

Precautions for fire-fighting

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.

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. Avoid breathing dust.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust.

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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. Avoid dust formation. Keep the work area clean of dusts and fibers released during processing or fabrication. Use vacuum equipment to clean up product. Avoid dry sweeping or using compressed air as these techniques cause dust and fibers to reenter the air. Ethylene oxide may accumulate in the headspace of shipping and storage containers and in enclosed areas where the product is being handled or used. Ethylene oxide is listed as carcinogenic by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA).

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| FIBERGLASS | | 65997-17-3 | |
|-------------------|-----------------------------------|-------------------|---------------------|
| ACGIH | time weighted average | 5 mg/m3 | Inhalable fraction. |
| NIOSH | Recommended exposure limit (REL): | 5 mg/m3 | fibers, total dust |
| NIOSH | Recommended exposure limit (REL): | 5 mg/m3 | Fiber, total |

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.

Avoid breathing dust.

Exposure controls

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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. Provide appropriate exhaust ventilation at places where dust is formed. This product may contain small amounts of ethylene oxide which could potentially accumulate in the headspace of shipping and storage containers and in enclosed areas where the product is being handled or used. Provide adequate ventilation to control exposures to within the OSHA permissible exposure limits of 1 ppm (TWA) and 5 ppm (STEL).

Eye protection

Wear safety glasses or chemical splash goggles when dust exposure is possible.

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 | solid |
| Form | no data available |
| Colour | White |
| Odour | no data available |
| Boiling point/boiling range | no data available |
| Melting point/range | no data available |
| Sublimation point | no data available |
| pH | no data available |
| Flash point | |

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| | |
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| Ignition temperature | not applicable |
| Evaporation rate | no data available |
| Lower explosion limit/Upper explosion limit | no data available |
| Particle size | no data available |
| Vapour pressure | 2.000 hPa |
| Relative vapour density | no data available |
| Density | 2.560 g/cm ³ @ 77.00 °F / 25.00 °C |
| Bulk density | No data |
| Water solubility | insoluble |
| 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

Keep away from heat, flame, sparks and other ignition sources.

Incompatible products

None known.

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrogen, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

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Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

FIBERGLASS : no data available

Acute inhalation toxicity

FIBERGLASS : no data available

Acute dermal toxicity

FIBERGLASS : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

FIBERGLASS : no data available

Bioaccumulation

FIBERGLASS : no data available

Ecotoxicity effects

Toxicity to fish

FIBERGLASS : no data available

Toxicity to daphnia and other aquatic invertebrates.

FIBERGLASS : no data available

Toxicity to algae

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FIBERGLASS : no data available

Toxicity to bacteria

FIBERGLASS : no data available

Biochemical Oxygen Demand (BOD)

FIBERGLASS : no data available

Chemical Oxygen Demand (COD)

FIBERGLASS : no data available

Additional ecological information

FIBERGLASS : no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. Dispose of with other normal, solid waste 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. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

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Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

*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 | FIBERGLASS

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| | |
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| of California to cause cancer. | FORMALDEHYDE ACETALDEHYDE ETHYLENE OXIDE 1,4-DIOXANE |
| WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. | ETHYLENE OXIDE |

SARA Hazard Classification

Acute Health Hazard
Chronic Health Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

New Jersey RTK Label Information

FIBERGLASS 65997-17-3

Pennsylvania RTK Label Information

FIBERGLASS 65997-17-3

Notification status

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

| | | |
|--|-------------|-------------|
| | HMIS | NFPA |
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| | | |
|------------------|----|----|
| Health | 2 | 1 |
| Flammability | 0 | 0 |
| Physical hazards | 0 | |
| Instability | | 0 |
| 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's Environmental Health and Safety Department (1-800-325-3751).