



Safety Data Sheet (SDS)

RoofMaster Products Co.

Dissolve II™

SDS Number: 91.1

Revision Date: 01/02/2017

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1 PRODUCT AND COMPANY IDENTIFICATION

RoofMaster Products
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Product Name: Dissolve II™
Revision Date: 10/6/2016
Version: 3.00
SDS Number: 91.1
Common Name: Solvent-Based Cleaner
CAS Number: MIXTURE
Chemical Family: Solvent-Surfactant Blend
Chemical Formula: *** PROPRIETARY ***
Synonyms: Safety Solvent Cleaner
Emergency Phone: +1-800-255-3924

2 HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 2, Fire = 2, Reactivity = 0
H*2/F2/PH0



| HMIS III | |
|-----------------------------------------------------------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 2 |
| PHYSICAL HAZARDS | 0 |
| PERSONAL PROTECTION C Safety Glasses, Gloves, Apron | |

| PERSONAL PROTECTION INDEX | | | |
|---------------------------|--|---|---------------------------------------------------------------------|
| A | | G | |
| B | | H | |
| C | | I | |
| D | | J | |
| E | | K | |
| F | | X | Consult your supervisor or S.O.P. for "SPECIAL" handling directions |
| A | | n | |
| t | | o | |
| u | | p | |
| w | | q | |
| y | | r | |
| z | | s | |
| Additional Information | | | |



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GHS Signal Word:
DANGER

GHS Hazard Pictograms:



GHS Classifications:

- Physical, Flammable Liquids, 4
- Health, Acute toxicity, 4 Oral
- Health, Aspiration hazard, 1
- Health, Acute toxicity, 4 Dermal
- Health, Skin corrosion/irritation, 2
- Health, Respiratory or skin sensitization, 1 Skin
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Acute toxicity, 5 Inhalation
- Health, Specific target organ toxicity - Single exposure, 3

GHS Phrases:

- H227 - Combustible liquid
- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H333 - May be harmful if inhaled
- H335 - May cause respiratory irritation

GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ventilating/light/equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.



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- P321 - Specific treatment (see supplementary first aid instructions on this label).
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P337+313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P370+378 - In case of fire: Use water spray, water fog, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
- P403+235 - Store in a well ventilated place. Keep cool.
- P405 - Store locked up.
- P501 - Dispose of contents/container to an approved waste disposal plant.

Additional Hazard Statements (EU):

- EUH019 - May form explosive peroxides.
- EUH066 - Repeated exposure may cause skin dryness or cracking.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

| Cas # | Percentage | Chemical Name |
|------------|------------|---------------------------------------------------|
| 64742-96-7 | 50-60% | Solvent naphtha, petroleum, heavy aliph. |
| 763-69-9 | 10-15% | Propanoic acid, 3-ethoxy-, ethyl ester |
| 5989-27-5 | 5-10% | Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- |
| None | 6.5-15% | Trade Secret* |
| 111-76-2 | 5-10% | 2-Butoxyethanol |

*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.

4 FIRST AID MEASURES

- Inhalation:** If inhaled, move person into fresh air. Monitor respiratory function. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. If symptoms persist, obtain medical attention.
- Skin Contact:** Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. Get immediate medical attention.
- Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Material can enter lungs (aspiration hazard) during swallowing or vomiting resulting in lung inflammation or other lung injury. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11. Inhalation of high concentrations of this material, as could occur in enclosed spaces or improper use, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material has an aspiration hazard. Any potential danger from aspiration must be weighed against possible oral toxicity when determining whether to induce vomiting. Consider activated charcoal and/or gastric lavage.

Indication of any immediate medical attention and special treatment needed:

No data available.



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FIRE FIGHTING MEASURES

| | |
|----------------------------|-------------------------------|
| Flammability: | Combustible Liquid Class IIIA |
| Flash Point: | 160 °F (71.1 °C) |
| Flash Point Method: | (PMCC) |
| Burning Rate: | No data available |
| Autoignition Temp: | No data available |
| LEL: | 0.6% (V) |
| UEL: | 7.0% (V) |

Extinguishing Media:

Water Spray
Water Fog
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Aldehydes Carbon
Oxides Hydrocarbon
particulate Ketones
Organic Acids

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.
Use water spray to cool unopened containers.
Do NOT use high volume water jet to extinguish fire, as the force of the water jet may cause fire to spread.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Remove all sources of ignition.
If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

Environmental Precautions:

Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.



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Do not allow to drain to environment.

Methods and Materials for Containments and Cleaning Up:

Ensure adequate ventilation.

Contain spillage and absorb with liquid-binding material (sand, diatomite, universal binders, vermiculite) and placed in container for disposal.

Spill may also be diluted with equal volume of water and absorbed (as above) or collect with an electrically-protected vacuum cleaner or by wet-brushing. Collected waste should then be placed in container for disposal.

Dispose of contaminated material according to Section 13.

Reference to Other Sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

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HANDLING AND STORAGE

Handling Precautions:

Avoid breathing vapors or mist.
Avoid contact with eyes, skin, or clothing.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Keep away from sources of ignition.
Do not smoke while using material.
Take measures to prevent the buildup of electrostatic charge. Do not puncture or drop containers.
Handle with care and avoid spillage on the floor (slippage).
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.

Storage Requirements:

Keep container tightly closed.
Avoid inhalation of vapors or mist upon opening container.
Store in a well-ventilated place.
Do not store at elevated temperatures.
Do not store in direct sunlight.
Long-standing contact with air and light may result in the formation of potentially explosive peroxides. Use caution.
Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Amines, Halogens, reactive metals (Zinc & Aluminum) and their alloys (Brass), Alkali metals, Alkali salts, liquid Chlorine and Chlorates.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/face protection:
When using material use safety goggles, gloves and apron according to HMIS PP, C. A vapor respirator according to HMIS PP, U is also strongly recommended if working with material in poorly ventilated spaces. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).



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Skin protection:

Handle with gloves made from PVC, neoprene, nitrile, butyl-rubber or fluorinated-rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:

Chemically resistant gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:

Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:

Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): Solvent naphtha, petroleum, heavy aliph.; Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; 2-Butoxyethanol

CAS No(s): 64742-96-7; 5989-27-5; 111-76-2

USA NIOSH (TWA/REL): 24 mg/m³

USA ACGIH (TWA/TLV): 96 mg/m³

USA OSHA - Table Z-1 Limits for Air Contaminants (TWA): 120 mg/m³

USA OSHA Occupational Exposure Limits Table Z-1 Limits for Air Contaminants (TWA): 240 mg/m³

USA Workplace Environmental Exposure Levels (WEEL): 165.5 mg/m³

Biological occupational exposure limits:

Component: 2-Butoxyethanol

CAS-No: 111-76-2

Parameters: Butoxyacetic acid (BAA)

Biological Specimen: Urine

USA ACGIH Biological Exposure Indices: 200 mg/g



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9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|----------------------------------|------------------------------|------------------|
| Appearance: | Clear, colorless to amber liquid | Odor: | Slight, fruity |
| Physical State: | Liquid | Molecular Formula: | MIXTURE |
| Odor Threshold: | Not determined | Solubility: | 100% |
| Particle Size: | No data available | Softening Point: | Not determined |
| Spec Grav./Density: | 0.834 g/ml (6.96 lbs/gal) | Percent Volatile: | 83.45% |
| Viscosity: | Not determined | Heat Value: | Not determined |
| Sat. Vap. Conc.: | Not determined | Freezing/Melting Pt.: | Not determined |
| Boiling Point: | 370 °C (550 °F) | Flash Point: | 71.1 °C (160 °F) |
| Flammability: | (solid, gas): Combustible | Octanol: | Not determined |
| Partition Coefficient: | Not determined | Vapor Density: | (air = 1): > 5.0 |
| Vapor Pressure: | (mm Hg @ 25 °C): < 1.0 | VOC: | 696 g/l |
| pH: | @ 1%: 7.0 | Bulk Density: | Not determined |
| Evap. Rate: | (N-Butyl Acetate = 1): < 0.10 | Auto-ignition Temp: | Not determined |
| Molecular weight: | MIXTURE | UFL/LFL: | (% v/v): 7.0/0.6 |
| Decomp Temp: | Not determined | | |

10 STABILITY AND REACTIVITY

| | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stability: | Product is stable under normal conditions. |
| Conditions to Avoid: | Incompatibilities, flames, ignition sources. |
| Materials to Avoid: | Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Amines, Halogens, reactive metals (Zinc & Aluminum) and their alloys (Brass), Alkali metals, Alkali salts, liquid Chlorine and Chlorates. |
| Hazardous Decomposition: | Aldehydes, Carbon Oxides, Hydrocarbon particulate, Ketones and Organic Acids. |
| Hazardous Polymerization: | Will not occur. |

11 TOXICOLOGICAL INFORMATION

Component(s): Solvent naphtha, petroleum, heavy aliph.; Propanoic acid, 3-ethoxy-, ethyl ester; Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; Trade Secret; 2-Butoxyethanol

CAS No(s): 64742-96-7; 763-69-9; 5989-27-5; None; 111-76-2

Acute Toxicity:

LD50 Oral - Rabbit: 2,835 mg/kg
LD50 Oral - Rat: 470 mg/kg
LD50 Dermal - Rabbit: 220 mg/kg
LD50 Intraperitoneal - Rat: 220 mg/kg
LD50 Intravenous - Rat: 307 mg/kg
LC50 Inhalation - Rat: 450 ppm (4 h)

Skin Corrosion/Irritation: Skin - Rabbit: Irritating to skin (24 h).

Serious Eye Damage/Eye Irritation: Risk of serious damage to eyes.

Respiratory or Skin Sensitation: Skin - Mouse: May cause sensitization by skin contact.

Germ Cell Mutagenicity: No data available.



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Carcinogenicity:

Oral - Rat (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-); Carcinogenic by RTECS criteria: Kidney, ureter, bladder; Tumorigenic effects - Kidney, testicular tumors

Oral - Mouse (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-); Equivocal Tumorigenic agent by RTECS criteria: Gastrointestinal tumors

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or OSHA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-). 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Butoxyethanol).

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity:

NOEL Teratogenicity - Oral - Rat: 50 mg/kg; Effects on development were observed. The significance of these findings for humans is not certain. Overexposure may cause reproductive disorders based on tests with laboratory animals.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Additional Information:

Component: Solvent naphtha, petroleum, heavy aliph.; RTECS: OA5500000

Component: Propanoic acid, 3-ethoxy-, ethyl ester; RTECS: UF3325000

Component: Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; RTECS: GW6360000

Component: 2-Butoxyethanol; RTECS: KJ8575000

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ECOLOGICAL INFORMATION

Component(s): Solvent naphtha, petroleum, heavy aliph.; Propanoic acid, 3-ethoxy-, ethyl ester; Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-; Trade Secret; 2-Butoxyethanol

CAS No(s): 64742-96-7; 763-69-9; 5989-27-5; None; 111-76-2

Toxicity:

Toxicity to fish:

LC50 - Lepomis macrochirus (Bluegill Sunfish): 1.0 mg/l (96 h)

LC50 - Oncorhynchus mykiss (Rainbow Trout): 35 mg/l (96 h)

Mortality LOEC - Pimephales promelas (Fathead Minnow): 2.0 mg/l (144 h)

Mortality NOEC - Pimephales promelas (Fathead Minnow): 1.8 mg/l (144 h)

Flow-through test LC50 - Pimephales promelas (Fathead Minnow): 0.72 mg/l (96 h)

Static-test LC50 - Pimephales promelas (Fathead Minnow): 45.3 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:



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EC50 - Daphnia magna (Water Flea): 12.2 - 17.0 mg/l (48 h)
EC50 - Daphnia pulex (Water Flea): 69.6 mg/l (48 h)
Mortality NOEC - Daphnia magna (Water Flea): 10.0 mg/l (144 h)
Mortality LOEC - Daphnia magna (Water Flea): 20.0 mg/l (144 h)
Immobilization EC50 - Daphnia magna (Water Flea): 0.36 mg/l (48 h)

Toxicity to algae:

Growth Inhibition LOEC - Pseudokirchneriella subcapitata: 16.0 mg/l (96 h)
Growth Inhibition NOEC - Pseudokirchneriella subcapitata: 8.0 mg/l (96 h)
Growth Inhibition EC50 - Selenastrum capricornutum (Green Algae): > 114.86 mg/l (72 h)

Toxicity to bacteria:

EC50 - Sludge Treatment: 3.94 mg/l

Persistence and Degradability:

No data available.

Bioaccumulative potential:

Most of the hydrocarbon blocks comprising Naphtha Solvents have a $\text{Log}_{\text{KOW}} > 3$, indicating that these constituents have a potential to bioaccumulate.

Mobility in Soil:

No data available.

Results of PBT and vPvB assessment:

Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT (US)

Non-regulated material, liquid

IMDG

Non-regulated material, liquid

IATA

Non-regulated material, liquid



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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

- *Solvent naphtha, petroleum, heavy aliph. (64742967 50-60%) MASS, NJHS, PA, SARA311/312, TSCA
- *Propanoic acid, 3-ethoxy-, ethyl ester (763699 10-15%) MASS, NJHS, PA, SARA311/312, TSCA
- *Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (5989275 5-10%) MASS, NJHS, PA, SARA311/312, TSCA
- *Trade Secret (None 6.5-15%) MA, NJHS, PA, SARA311/312, TSCA
- *2-Butoxyethanol (111762 5-10%) HAP, MASS, NJHS, OSHAWAC, PA, SARA311/312, SARA313, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

HAP = Hazardous Air Pollutants
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
SARA313 = SARA 313 Title III Toxic Chemicals
TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that RoofMaster Products believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of RoofMaster Products' control, RoofMaster Products makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.