



Apexior Number 3
SDS Preparation Date (mm/dd/yyyy): 10/02/2019

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label: Apexior 3
Product Code(s) : 003
Recommended use of the chemical and restrictions on use
: Boiling Water/ Steam Exposure / Immersion Coating
Use pattern : Professional Use Only
Recommended restrictions
: None Known.
Chemical family : Mixture.

Name, address, and telephone number of the manufacturer:
Dampney Company, Inc.
85 Paris Street
Everett, Massachusetts, U.S.A. 02149

Email: sales@dampney.com

Supplier's Telephone # : (617) 389-2805
24 Hr. Emergency Tel #: Chemtrec 1-800-424-9300 (Within Continental U.S.)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
Black liquid. Solvent odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:
Flammable Liquids - Category 3
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
Reproductive Toxicity - Category 2

Label elements

Hazard pictogram(s)



Signal Word
DANGER!

Hazard statement(s)
Flammable liquid and vapour. May cause respiratory irritation.
May cause drowsiness and dizziness. Suspected of damaging the unborn child.

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
Take precautionary measures against static discharge. Avoid breathing vapors or mists.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.

Response:
If exposed or concerned: Get medical attention/advice.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person



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to fresh air and keep comfortable for breathing.
Call a POISON CENTRE or doctor/physician if you feel unwell.
In case of fire: Use alcohol-resistant foam, carbon dioxide or dry chemical to extinguish.

Storage:
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Disposal:
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
No OSHA defined hazard classes.
Other hazards which do not result in classification: May be sensitive to static discharge. Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	Concentration (% by weight)
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	48.00
Asphalt	8052-42-4	26.00
Xylene	1330-20-7	4.00

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion :

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Material is an aspiration hazard. Guard against aspiration into lungs by having the individual turn on their left side. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact :

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact :

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Most important symptoms and effects, both acute and delayed: May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause drowsiness and dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation.

Indication of any immediate medical attention and special treatment needed: Treatment symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

Do not use water jet, as this may spread burning material.

Special hazards arising from the substance or mixture / Conditions of flammability: Flammable liquid and vapour. Keep away from heat, sparks, and open flames. This product will accumulate static charge by flow, splashing or agitation. Vapors may travel considerable distance to a source of ignition and flash back. Vapours are heavier than air and collect in confined and low-lying areas. Product may float, and be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquid - Category 3



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Hazardous combustion products:
 Carbon oxides; other unidentified organic compounds.

Special protective equipment and precautions for firefighters
 Protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures:
 Move containers from fire area if safe to do so. Use water spray to cool unopened containers. Avoid spreading burning liquid with water spray used for cooling purposes. Do not allow run-off from fire fighting to enter drains or water courses. Prevent fire extinguishing water from contaminating surface water or the ground water system.
 Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
 Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapour or mist. Restrict access to area until completion of clean-up. Remove all sources of ignition. All persons dealing with the clean-up should wear the appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions:
 Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up:
 Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Contaminated absorbent material may pose the same hazards as the spilled product. Pick up and transfer to properly labelled containers. Contact the proper local authorities.

Special spill response procedures:
 In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
 EPA/CERCLA Reportable quantity (RQ): Xylene (100 lbs / 45.4 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat and flame. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Bond and ground transfer containers and equipment. Use explosion-proof electrical and ventilating equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Avoid breathing vapour or mist. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. Encourage good housekeeping and personal hygiene.

Conditions for safe storage
 : Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. Store away from incompatibles and out of direct sunlight. Take measures to prevent the buildup of electrostatic charge. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials
 : Strong oxidizers, acids and bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	PEL STEL
	TWA	STEL		
Solvent naphtha (petroleum), medium aliphatic	100 ppm	N/Av	500 ppm; 2000 mg/m ³ (as petroleum distillates, naphtha)	N/Av
Asphalt	0.5 mg/m ³ (fume,	N/Av inhalable fraction, as benzene	N/Av	N/Av



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	soluble aerosol)			
Xylene	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av

Exposure controls

Ventilation and engineering measures: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection: Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection: Chemical splash goggles are recommended.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Black
Odour	: Solvent odor
Odour threshold	: N/Av
pH	: N/Av
Melting/Freezing point	: N/Av
Initial boiling point and boiling range	: 137 - 204°C (279 - 400°F)
Flash point	: 26.66 - 40.56 °C (79.99 - 105°F)
Flashpoint (Method)	: solvent blend
Evaporation rate (BuAe = 1)	: 0.034 times slower than n-Butyl acetate
Flammability (solid, gas)	: N/Av
Lower flammable limit (% by vol.)	: N/Av
Upper flammable limit (% by vol.)	: N/Av
Oxidizing properties	: N/Av
Explosive properties	: Not explosive
Vapour pressure	: N/Av
Vapour density	: >1
Specific gravity	: 0.889
Solubility in water	: N/Av
Other solubility(ies)	: N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	: N/Av
Auto-ignition temperature	: N/Av
Decomposition temperature	: N/Av
Viscosity	: 300 cSt at 40°C
Volatiles (% by weight)	: 52.0%
Volatiles (% by volume)	: 58.06%
Volatile organic Compounds (VOC's)	: 3.8 lbs/gal
Absolute pressure of container	: N/Av
Other physical/chemical comments	: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.

Chemical stability : Stable under normal conditions.



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Possibility of hazardous reactions: Hazardous polymerization does not occur. May be sensitive to static discharge.

Conditions to avoid: Keep away from heat, sparks and flame. Take precautionary measures against static discharge. Keep away from direct sunlight. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.

Incompatible materials: Strong oxidizers, acids and bases.

Hazardous decomposition products: None reported by the manufacturer. In the event of fire the following can be released: Carbon oxides; Other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion: YES
Routes of exposure skin absorption: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Inhalation may cause respiratory irritation and central nervous system depression. Inhalation may provoke the following symptoms: Drowsiness Dizziness Respiratory tract irritation, coughing and wheezing.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes symptoms similar to those listed for inhalation.

Sign and symptoms skin

: Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes

: Direct eye contact may cause slight or mild, transient irritation.

Potential Chronic Health Effects: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Reproductive Toxicity - Category 2 Suspected of damaging the unborn child.

Sensitization to material: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: Eyes, skin, respiratory system, digestive system, central nervous system.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) May cause respiratory irritation.

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects May cause drowsiness and dizziness.

Medical conditions aggravated by overexposure: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials: None reported by the manufacturer.

Toxicological data: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC50(4hr) inh, rat	LD50	
		(Oral, rat)	(Rabbit, dermal)
Solvent naphtha (petroleum), medium aliphatic	>5500 mg/m ³ ;21.4 mg/L	>5000 mg/kg	>2000 mg/kg
Asphalt	N/Av	> 5000 mg/kg	N/Av
Xylene	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg

Other important toxicological hazards: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION



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Ecotoxicity: No data is available on the product itself. Should not be released into the environment.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	2 - 5 mg/L (Rainbow trout)	0.098 mg/L/28-day QSAR NOEL	None.
Asphalt	8052-42-4	> 1000 mg/L (Rainbow trout) (QSAR)	N/Av	None.
Xylene	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1.4 mg/L Water flea	0.48 mg/L QSAR NOEL Water flea	None.
Asphalt	8052-42-4	> 1000 mg/L (Daphnia magna) (QSAR)	≥ 1000 mg/L (NOEL) (QSAR)	None.
Xylene	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 3 mg/L/72hr (Green algae)	1 mg/L/72hr (Green algae) NOEL	None.
Asphalt	8052-42-4	> 1000 mg/L/72hr (Green algae) (QSAR)	N/Av	None.
Xylene	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.

Persistence and degradability: No data is available on the product itself.

Bioaccumulation potential : No data is available on the product itself.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	N/Av	N/Av
Asphalt (CAS 8052-42-4)	>6	no bioaccumulation expected
Xylene (CAS 1330-20-7)	3.12 - 3.2	0.6 - 15

Mobility in soil: No data is available on the product itself.

Other Adverse Environmental effects: The ecological characteristics of this product have not been fully investigated. Contains material that may be harmful in the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal: Dispose in accordance with all applicable regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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Solvent naphtha (petroleum), medium aliphatic	64742-88-7	No	Not listed	No	No	No	Yes	No	No
Asphalt	8052-42-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Xylene	1330-20-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	265-191-7	Present	Present	(9)-1700	KE-31664	Present	May be used as a single component chemical under an appropriate group standard
Asphalt	8052-42-4	232-490-9	Present	Present	(9)-1720	KE-01954	Present	
Xylene	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983

SECTION 16. OTHER INFORMATION

Legend:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- EC50: Effective Concentration 50%.
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods Inh: Inhalation
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NJ: New Jersey
- NIOSH: National Institute of Occupational Safety and Health
- NOEC: No observable effect concentration
- NTP: National Toxicology Program
- OECD: Organization for Economic Co-operation and Development
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- PEL: Permissible exposure limit
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit



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TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:

Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015 European Chemicals Agency,
Classification Legislation, National occupational exposure limits

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Other special considerations for handling: Provide adequate information, instruction and training for operators.

<p>Dampney Company, Inc. 85 Paris Street Everett MA 02149 U.S.A Telephone: (617) 389-2805</p>	
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DISCLAIMER

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