

MATERIAL SAFETY DATA SHEET

Issued 10/2008

Trade name: OR411

CHEMICAL FAMILY: SOLVENT

Section 1 (PRODUCT/MANUFACTURER INFO)

Manufactured by:

Enhanced Flooring Products LLC
N6860 Forest Ridge Road
Ripon, WI 54971 USA
800-625-9577

TRANSPORTATION EMERGENCY
CALL CHEMTREC: (800) 424-9300
INTERNATIONAL: (703) 527-3887

Section 2 (COMPOSITION AND INFORMATION ON INGREDIENTS)

Name	CAS#	% by volume	TLV/PEL	LC/LD
Methyl-1 pyrrolidinone-2	872-50-4	60	Not available	Not available
Dibasic Ester	Mixture	>9	Not available	Not available

Section 3 (HAZARDS IDENTIFICATION)

Potential acute health hazards:

Very hazardous in case of skin contact (irritant). Hazardous in case of skin contact (permeator), of eye contact (irritant). Slightly hazardous in case of ingestion.

Potential chronic health effects:

Carcinogenic effects:
Not available

Mutagenic effects:
Not available

Teratogenic effects:
Not available

Developmental toxicity:
Not available

There is no know effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4 (FIRST AID MEASURES)

Eye contact:

Check for and remove contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use eye ointment. Seek medical attention.

Skin contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non abrasive soap. Be particularly careful to clean folds, crevices, creases and groin.

Cold water may be used. Cover the irritated skin with emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek medical attention.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, are not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth to mouth resuscitation. Seek immediate medical attention.

Section 5 (FIRE FIGHTER MEASURES)

Flammability:

Combustible

Auto ignition Temperature:

The lowest known value is 270°C (518°F) (Methyl-1 pyrrolidinone-2)

Flash Point:

The lowest known value is closed cup:92.7°C (198.9°F) (Tagliabue) Open cup 95.6°C (204.1°F) (Methyl-1 pyrrolidinone-2)

Flammable limits:

The greatest know range is lower: 1.3% Upper: 9.5% (Methyl-1 pyrrolidinone-2)

Products of combustion:

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...)

Fire hazards in presence of various substances:

Flammable in presence of heat

Fire fighting media and instructions:

Small fire:

Use dry chemicals, CO₂, water spray or foam

Large fire:

Use water spray, for or foam. Do not use water jet.

Section 6 (ACCIDENTAL RELEASE MEASURES)

Small spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large spill:

Combustible liquid. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 (HANDLING AND STORAGE)

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas, fumes, vapor or spray. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage:

Flammable material should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

Section 8 (EXPOSURE CONTROLS AND PERSONAL PROTECTION)

Engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work station location.

Personal protection:

Splash goggles. Lab coat. Gloves. Wear appropriate respirator when ventilation is inadequate.

Personal protection in case of a large spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a chemist before handling this product.

Section 9 (PHYSICAL AND CHEMICAL PROPERTIES)

Physical state and appearance: Liquid

Odor: strong

Color: light

Molecular wt: not applicable

pH: not available

Boiling point: lowest know value is 195.3 C (Dimethyl adipate). Weighted average: 199.32 C

Melting point: may start to solidify at -23 C based on data for Methyl-1 pyrrolidinone-2

Solubility: soluble in cold water

Specific gravity: the only known value is 1.031

Vapor pressure: highest known value is 0.29 mm of Hg

Vapor density: highest known value is 3.4

Volatility: 100%

Viscosity: Not available

Evaporation rate: 1.03 compared to butyl acetate

Section 10 (STABILITY AND REACTIVITY DATA)

Stability: the product is stable

Instability temperature: not available

Conditions of instability: no additional remark

Incompatibility with various substances: no specific information in our database regarding the reactivity of this material in presence of various other materials.

Corrosivity: no specific information is available in our database regarding the corrosivity of this product in presence of various materials

Section 11 (TOXICOLOGICAL INFORMATION)

Routes of entry:

Absorbed through skin. Eye contact

Toxicity to animals:

LD50: not available

LC50: not available

Chronic effects on humans:

Not available

Other toxic effects on humans:

Very hazardous in case of skin contact (irritant).

Hazardous in case of skin contact (permeator), of eye contact (irritant)

Slightly hazardous in case of ingestion

Section 12 (ECOLOGICAL INFORMATION)

Ecotoxicity:

Not available

BOD5 and COD:

Not available

Products of biodegradation:

Possibly hazardous short term degradation products are not likely. However long term degradation products may arise.

Toxicity of the products of biodegradation:

The product itself and its products of degradation are not toxic.

Section 13 (DISPOSAL CONSIDERATIONS)

Waste disposal:

Recycle if possible. Consult your local or regional authorities.

Section 14 (TRANSPORT INFORMATION)

DOT classification:

DOT CLASS:

Combustible liquid with a flash point greater than 37.8 C

PIN:

Shipping name:

Combustible liquid, N.O.S. (n-Methyl-2-Pyrrolidone) UNNA: NA 1993 PG: III

Special provisions for transport:

Not applicable

Section 15 (OTHER REGULATORY INFORMATION)

Federal and State Regulations:

SARA 302/304/311/312 extremely hazardous substances:

No products were found

SARA 313 toxic chemical notification and release reporting:

Methyl-1 pyrrolidinone-2

CERCLA hazardous substances:

No products were found

All components on this product are listed on the TSCA inventory.

HMIS (USA)

H	2
F	2
R	0
PP	j

DEGREE OF HAZARD: 4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

The method of hazard communication for EFP LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by EFP LLC as a customer service.

For Additions Information:

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Contact: MSDS Coordinator- Enhanced Flooring Products LLC (EFP LLC)

During business hours, Center-800-625-9577

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END OF MSDS

MFG by EFP LLC 10/08