SECTION 1. IDENTIFICATION

Identification of the company:
Dharma Trading Co.
1805 S. McDowell Blvd. Ext.
Petaluma, CA 94954
Telephone No.: +1 707-283-0390

Information of the substance/preparation:
Product Stewardship +1 704-353-4120
Emergency tel. number: +1 866-928-0789 (NCEC)

Trade name: Cassofix FRN300 liq hc
Material number: 152485
Formula: Mixture
Chemical family: polymer in aqueous dispersion

Recommended use of the chemical and restrictions on use
Recommended use: Textile auxiliary
Recommended restrictions on use: unknown

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin sensitisation: Category 1
Carcinogenicity: Category 2
Specific target organ toxicity: Category 1

GHS Label element
Hazard pictograms:

Signal word: Danger
Hazard statements: H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H370 Causes damage to organs.
Precautionary statements:
Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>2</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>0.5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled
: Move the victim to fresh air.
   Give oxygen or artificial respiration if needed.
   Get immediate medical advice/attention.
   Never give anything by mouth to an unconscious person.

In case of skin contact
: Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

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

If swallowed
: If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do not give sodium bicarbonate, fruit juices, or vinegar. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or poison control center. Call physician...
or poison control center immediately.

Most important symptoms and effects, both acute and delayed: The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.

Notes to physician: None known.

SECTION 5. FIREFIGHTING MEASURES

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>water</th>
<th>Alcohol-resistant foam</th>
<th>Carbon dioxide (CO2)</th>
<th>Dry chemical</th>
<th>Water spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specific hazards during firefighting: Thermal decomposition may produce oxides of carbon, nitrogen and sulfur.

Further information: Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbants. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove contaminated soils, place in appropriate containers.

Methods and materials for containment and cleaning up: Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Avoid contact with skin and eyes.

Conditions for safe storage: Keep container closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of)</th>
<th>Control parameters / Permissible</th>
<th>Basis</th>
</tr>
</thead>
</table>
**SAFETY DATA SHEET**

**Cassofix FRN300 liq hc**

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Concentration</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol TWA 200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption</td>
</tr>
<tr>
<td></td>
<td>STEL 250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA 200 ppm 260 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential for dermal absorption</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST 250 ppm 325 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential for dermal absorption</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA 200 ppm 260 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td>Further information: The value in mg/m³ is approximate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA 200 ppm 260 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td>Further information: Skin notation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL 250 ppm 325 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td>Further information: Skin notation</td>
<td></td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde C 0.3 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>Further information: Eye &amp; Upper Respiratory Tract irritation, Suspected human carcinogen, Sensitizer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA 0.016 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential Occupational Carcinogen, See Appendix A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C 0.1 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential Occupational Carcinogen, See Appendix A, 15 minute ceiling value</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA 0.016 ppm (Formaldehyde)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol., See Appendix A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C 0.1 ppm (Formaldehyde)</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td>Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol., See Appendix A, 15 minute ceiling value</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering measures**

- Local ventilation recommended - mechanical ventilation may be used.
SAFETY DATA SHEET

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Personal protective equipment
Respiratory protection: NIOSH approved respirator - chemical cartridge respirator with appropriate cartridge, if required.
Hand protection
Remarks: Butyl Rubber, PVC Or Neoprene.
Eye protection: Tightly fitting safety goggles
Skin and body protection: Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Colour: amber
Odour: like acetic acid, weakly
Odour Threshold: not determined
pH: 2.5 - 4.5
Freezing point: not determined
Boiling point: approx. 212 °F
Flash point: > 200 °F  Method: TCC
Evaporation rate: not determined
Flammability (solid, gas): not applicable
Upper explosion limit: not tested.
Lower explosion limit: not tested.
Vapour pressure: not determined
Relative vapour density: not determined
Density: not determined
Solubility(ies)
Water solubility: completely soluble
Partition coefficient: n-octanol/water: not determined
Auto-ignition temperature: not tested.
SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use. Stable

Conditions to avoid: Oxidizer

Incompatible materials: Oxidizing agents

Hazardous decomposition products: When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact

Skin contact

Ingestion

Inhalation

Skin Absorption

Acute toxicity

Product:


Acute toxicity estimate: 4,000 mg/kg
Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method
Components:
67-56-1:
Acute oral toxicity: LD0 (Humans): 428 mg/kg

50-00-0:
Acute oral toxicity: LD50 (rat): 800 mg/kg

Carcinogenicity
IARC Listed
OSHA Listed
NTP Listed

Experience with human exposure
Product:
General Information: The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Components:
67-56-1:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 19,000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50: > 10,000 mg/l Exposure time: 24 h

Toxicity to bacteria: IC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h

Persistence and degradability
Components:
67-56-1:
Biodegradability: Exposure time: 28 d Method: OECD Test Guideline 301D

Bioaccumulative potential
Components:
67-56-1:
Bioaccumulation: Remarks: Due to the low logPow bioaccumulation is not expected

Partition coefficient: n- log Pow: -0.77
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste Code: None
Waste from residues: Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted
IATA not restricted
IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>100</td>
<td>20000</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazards: Acute Health Hazard
                      Chronic Health Hazard

SARA 302: The following components are subject to reporting levels established by SARA Title III, Section 302:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Component</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>0.5 %</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

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SARA 313
This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372. Any such toxic chemical(s) are shown below. This information must be included in all MSDS’s that are copied and distributed for this material.

Methanol 67-56-1  2%
Formaldehyde 50-00-0 0.5%

Clean Water Act
Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:
TSCA: On TSCA Inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information
This product has not been evaluated for FDA regulatory requirements.
Revision Date: 07/15/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN