

Fluidine MRP Metal Conditioning Friction Reducer

Taw Caw Solutions

Safety Data Sheet

Revision date: 2 August 2016
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1. Product and Company Identification

1.1 Product identifiers

Product Name Fluidine MRP Metal Conditioning Friction Reducer
Producer Taw Caw Solutions
Product Number No data available
CAS-No. Mixture

1.2 Identified uses of the product and uses advised against

Identified Uses Metal conditioner, friction reducer

1.3 Details of the chemical supplier

Company Taw Caw Solutions
Address 2037 Summerton Highway
Summerton, SC 29148
USA
Telephone: +1 (803) 478-8808

1.4 Emergency phone number

Emergency phone number +1 (803) 478-8808 (Main company number)

2. Hazards Identification

2.1 Classification of the substance or mixture

GHS Class Not a hazardous substance or mixture

2.2 GHS Label elements, including precautionary statements

GHS Pictograms Not hazardous
Signal word Not hazardous
Hazard statements Not hazardous
Precautionary statements Not hazardous

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms Metal conditioner, friction reducer, lubricant, organic metal-working fluid
Formula No data available; mixture of organic materials
Molecular wt Mixture
CAS-No. Mixture
EC-No. Mixture

Chemical Name	CAS-No.	EC-No.	Ingredient Percent	Hazards
Mixture of organic oil extracts (proprietary)	n/a	n/a	80 - 100 %	Not hazardous
Inhibitor additive (proprietary)	n/a	n/a	0 - 10 %	Not hazardous

Remarks There are no additional hazardous ingredients greater than or equal to 1.0 wt% concentration or carcinogenic ingredients greater than or equal to 0.1 wt% concentration.

4. First Aid Measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Skin contact	May cause mild skin irritation. Wash off with soap and water. Consult a physician if symptoms occur.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if symptoms occur.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms occur.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects	The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.
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4.3 Indication of any immediate medical attention and special treatment needed

Other first aid	No data available
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5. Fire Fighting Measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Special hazards	Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.
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5.3 Advice for firefighters

Protective equipment	Wear self-contained breathing apparatus for firefighting if necessary.
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6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions	Avoid breathing vapors, mist or gas. For personal protection see section 8.
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6.2 Environmental precautions

Environmental precautions	Prevent material from entering drains. Contain and mop up spilled material as soon as possible. Recover as much of the material as possible.
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6.3 Methods and materials for containment and cleaning up

Methods for cleanup	Soak up with inert absorbent material and dispose. Keep in suitable, closed containers for disposal.
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6.4 References to other sections

Other references	For disposal see section 13.
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7. Handling and Storage

7.1 General hygiene considerations

General hygiene	Avoid contact with skin and eyes. Avoid inhalation of vapor or dust. Use local exhaust or general dilution ventilation to control exposure within applicable limits. For precautions see section 2.2.
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7.2 Precautions for safe handling

Safe handling precautions	Keep container tightly closed in a dry and well-ventilated place.
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7.3 Conditions for safe storage, including any incompatibilities

Other storage conditions	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
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8. Exposure Controls/Personal Protection

8.1 Control and exposure limits recommended by the chemical manufacturer

OSHA Standards	No data available
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Threshold Limit Values	No data available
NIOSH Recommendations	No data available

8.2 Appropriate engineering controls

Engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Use adequate ventilation where dust forms to keep concentration under exposure control limits.
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8.3 Individual protection measures, such as personal protective equipment

Respiratory protection	Not required under normal methods of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye/face protection	Safety glasses with side-shields conforming to EN166 are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Liquid; Color: translucent light brown
b) Odor	Mild oil odor
c) Odor threshold	No data available
d) pH	No data available
e) Melting/freezing point	No data available
f) Boiling point	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	Upper (UEL): No data available Lower (LEL): No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient octanol/water	No data available
p) Auto-ignition temp	No data available
q) Decomposition temp	No data available
r) Viscosity	>1.0 cP at 20°C (68°F) - predicted

10. Stability and Reactivity**10.1 Reactivity**

Reactivity	No data available
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10.2 Chemical stability

Chemical stability	Stable under ordinary conditions of use and storage. Organic mixture.
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10.3 Possibility of hazardous reactions

Hazardous reactions	No data available
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10.4 Conditions to avoid

Conditions to avoid	Contact with incompatible chemicals and exposure to extremely high temperatures.
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10.5 Incompatible materials

Incompatible materials Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, or strong reducing agents.

10.6 Hazardous decomposition products

Hazardous products None under normal processing. In the event of fire, see section 5.

11. Toxicological Information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity No data available
 Acute dermal toxicity No data available
 Acute inhalation toxicity No data available

Skin corrosion/irritation

Skin corrosion irritation No data available

Serious eye damage/eye irritation

Eye damage/eye irritation No data available

Respiratory or skin sensitization

Respiratory sensitizer No data available
 Skin sensitizer No data available

Germ cell mutagenicity

Mutagenicity No data available

Suspected cancer agent

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

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

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

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

Reproductive toxicity

Reproductive toxicity This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans.

Aspiration hazard

Aspiration hazard No data available

12. Ecological Information**12.1 Ecotoxicity (aquatic and terrestrial)**

Ecotoxicity No data available

12.2 Persistence and degradability

Degradability Persistence is unlikely based on information available.

12.3 Bioaccumulation potential

Bioaccumulation No data available

12.4 Mobility in soil

Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment Not available as chemical safety assessment not required/not conducted.

13. Disposal Considerations

13.1 Waste treatment methods

Waste treatment disposal

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

14. Transport Information

DOT

Not dangerous goods.

TDG

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. Regulatory Information

15.1 Safety, health, and environmental regulations specific to the product or mixture

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	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.
SARA 311/312 Hazards	No SARA hazards.
CA Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

HMIS Rating	Health hazard: 1 Flammability: 0 Physical Hazard 0
NFPA Rating	Health hazard: 1 Fire Hazard: 0 Reactivity Hazard: 0
Revision Date	2 August 2016

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Taw Caw Solutions assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Taw Caw Solutions assumes no responsibility for injury to vendee or third persons proximately caused by use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Abbreviations and acronyms	<p>IMDG - International Maritime Code for Dangerous Goods TDG - Transportation of Dangerous Goods IATA - International Air Transport Association GHS - Globally Harmonized System of Classification and Labelling of Chemicals PBT - Persistent, bioaccumulative and toxic assessment vPvB - Very persistent and very bioaccumulative assessment ACGIH - American Conference of Governmental Industrial Hygienists NIOSH - National Institute for Occupational Safety and Health TLV - Threshold Limit Values CAS - Chemical Abstracts Service (division of the American Chemical Society) NFPA - National Fire Protection Association HMIS - Hazardous Materials Identification System CFR - Code of Federal Regulations SARA - Superfund Amendments and Reauthorization Act</p>
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DOT - US Department of Transportation
EC50 - Half maximal effective concentration
LD50 - Median lethal dose
LC50 - Median lethal concentration
SDS - Safety Data Sheet