

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

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### SECTION 1. IDENTIFICATION

Product name : TAG MULTI

#### Manufacturer or supplier's details

Company name of supplier : Lighthouse Adhesives, LLC  
Address : 4284 S. Dixie Hwy  
Resaca GA 30735  
Telephone : (706) 263-1800  
Emergency telephone : (CHEMTREC): (800) 424-9300 (CHEMTREC International):  
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation : Category 2

Reproductive toxicity : Category 2

#### GHS label elements

Hazard pictograms : The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black silhouette of a person with a star on their chest, representing Health Hazard (H315). The second is a red diamond with a black exclamation mark, representing Exclamation Mark (H361).

Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste dis-

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

posal plant.

### Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 29.5335 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 29.5335 %

### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Rosin	8050-09-7	>= 1 - < 5
potassium hydroxide	1310-58-3	>= 1 - < 5
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	68610-51-5	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

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## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes skin irritation.  
Suspected of damaging fertility or the unborn child.
- Notes to physician : Treat symptomatically.
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## SECTION 5. FIRE-FIGHTING MEASURES

- Unsuitable extinguishing media : High volume water jet
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# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
  - Hazardous combustion products : No hazardous combustion products are known
  - Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
  - Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.
  - Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
  - Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not freeze.  
Keep away from food and drink.  
Keep away from tobacco products.
- Further information on storage stability : No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Rosin	8050-09-7	TWA (Inhalable particulate matter)	0.001 mg/m <sup>3</sup> (total Resin acids)	ACGIH
potassium hydroxide	1310-58-3	C	2 mg/m <sup>3</sup>	ACGIH
		C	2 mg/m <sup>3</sup>	NIOSH REL
		C	2 mg/m <sup>3</sup>	OSHA P0

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).  
Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Avoid contact with skin.  
When using do not eat, drink or smoke.  
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing  
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : beige, tan

Odor : slight

pH : 9.4 - 9.6

Melting point/freezing point : No data available

Boiling point/boiling range : Not applicable

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Flash point : Not applicable

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : Not applicable

Density : 9.6 - 9.8 lb/gal

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : Not applicable

Partition coefficient: n-octanol/water : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Not applicable

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### Components:

#### Rosin:

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Acute oral toxicity : LD50 (Rat): +/- 7,600 - 8,400 mg/kg  
LD50: > 7,500 - < 10,000 mg/kg  
LD50 (Rat): 7,600 - 8,400 mg/kg

Acute inhalation toxicity : LC50 (Rat): +/- 2.3 mg/l  
Exposure time: 4 h  
LC50 (Rat): 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): 2,500 mg/kg  
LD50 (Rat): > 2,000 mg/kg  
GLP: yes  
LD50 (Rat): 2,500 mg/kg

### **potassium hydroxide:**

Acute oral toxicity : LD50 (Rat): 1,230 mg/kg

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
GLP: yes

### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks : May cause skin irritation in susceptible persons.

### **Components:**

#### **Rosin:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : Not irritant  
Method : in vivo

#### **potassium hydroxide:**

Species : Rabbit  
Exposure time : 4 h  
Assessment : Corrosive  
Method : in vivo

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Species : Rabbit  
Assessment : Not irritant  
Method : in vivo  
GLP : yes

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks : Product dust may be irritating to eyes, skin and respiratory system.

#### Components:

##### **Rosin:**

Species : Rabbit  
Exposure time : 48 h  
Assessment : Not irritant  
Method : in vivo  
GLP : yes

##### **potassium hydroxide:**

Assessment : irritating

##### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Species : Rabbit  
Exposure time : 1 - 72 h  
Assessment : Not irritant  
Method : in vivo  
GLP : yes

### Respiratory or skin sensitization

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### Product:

Remarks : This information is not available.

#### Components:

##### **Rosin:**

Test Type : Skin sensitization:  
Species : Guinea pig  
Method : in vivo  
Result : Non sensitising  
GLP : yes

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

### **potassium hydroxide:**

Test Type : Skin sensitization:  
Species : Guinea pig  
Method : in vivo  
Result : Non sensitising  
GLP : no

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Test Type : Skin sensitization:  
Species : Guinea pig  
Method : in vivo  
Result : Non sensitising  
GLP : yes

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

### **STOT-single exposure**

Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

#### **Components:**

#### **Rosin:**

Species : Rat, male  
NOAEL : 1 %(m)  
Application Route : Oral  
Exposure time : 90 d  
Method : Diet  
GLP : no

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Species : Rat, male and female  
NOAEL : 500 ppm(m)  
Application Route : Oral



# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Exposure time                   : 91 - 92 d  
Method                            : Diet  
GLP                                : yes

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks                         : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish                   : Remarks: No data available

Toxicity to daphnia and other   :  
aquatic invertebrates           Remarks: No data available

Toxicity to algae/aquatic       :  
plants                             Remarks: No data available

#### Components:

##### **Rosin:**

Toxicity to fish                   : LC50 (Danio rerio (zebra fish)): 60.3 mg/l  
Exposure time: 96 h  
Analytical monitoring: Analytical monitoring: no  
Method: static test  
GLP: yes

Toxicity to daphnia and other   :  
aquatic invertebrates           LC50 (Daphnia magna (Water flea)): 1.6 mg/l  
Exposure time: 48 h  
Analytical monitoring: Analytical monitoring: no  
Method: static test  
GLP: yes

##### **potassium hydroxide:**

Toxicity to fish                   : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l  
Exposure time: 48 h  
Method: static test

LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l  
Exposure time: 96 h  
Method: static test

LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l  
Exposure time: 96 h  
Analytical monitoring: Analytical monitoring: no

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Method: static test  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC100 (Dreissena polymorpha): > 10 mg/l  
Exposure time: 2 d  
Analytical monitoring: Analytical monitoring: no data  
GLP: No data available

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.2 mg/l  
Exposure time: 72 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.2 mg/l  
Exposure time: 96 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.2 mg/l  
Exposure time: 24 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.2 mg/l  
Exposure time: 48 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.2 mg/l  
Exposure time: 24 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

EC50 (Daphnia magna (Water flea)): > 0.2 mg/l  
Exposure time: 48 h  
Analytical monitoring: Analytical monitoring: yes  
Method: semi-static test  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (algae): > 0.2 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

### Persistence and degradability

#### Components:

##### **Rosin:**

Biodegradability : Concentration: 200 mg/l  
Biodegradation: 73.3 %  
Exposure time: 28 d  
GLP: yes

Concentration: 2 mg/l  
Biodegradation: 71 %  
Exposure time: 28 d  
GLP: yes

Concentration: 13.7 mg/l  
Biodegradation: 80 %  
Exposure time: 28 d  
GLP: yes

Concentration: 13.6 mg/l  
Biodegradation: 89 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: > 0 %  
Exposure time: 28 d  
GLP: No data available

Concentration: 10 mg/l  
Biodegradation: 64 %  
Exposure time: 28 d  
GLP: yes

Concentration: 20 mg/l  
Biodegradation: 0.95 %  
Exposure time: 28 d  
GLP: yes

Concentration: 200 mg/l  
Biodegradation: 89.5 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: 4 %  
Exposure time: 28 d  
GLP: No data available

Biodegradation: 45.6 %  
Exposure time: 28 d  
GLP: yes

Concentration: 12.6 mg/l  
Biodegradation: 58 %  
Exposure time: 28 d

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

GLP: yes

Concentration: 14.3 mg/l  
Biodegradation: 66 %  
Exposure time: 28 d  
GLP: yes

Concentration: 15 mg/l  
Biodegradation: 54 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: 13.9 %  
Exposure time: 28 d  
GLP: yes

Concentration: 20 mg/l  
Biodegradation: 56 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: 14.7 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: 13.6 %  
Exposure time: 28 d  
GLP: yes

Concentration: 12.6 mg/l  
Biodegradation: 89 %  
Exposure time: 28 d  
GLP: yes

### **Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:**

Biodegradability : Concentration: 17.6 mg/l  
Biodegradation: 1 %  
Exposure time: 28 d  
GLP: yes

### **Bioaccumulative potential**

#### **Components:**

#### **Rosin:**

Bioaccumulation : Bioconcentration factor (BCF): 56.23  
Bioconcentration factor (BCF): 56.2  
Bioconcentration factor (BCF): 3.16  
Bioconcentration factor (BCF): 44.98  
Bioconcentration factor (BCF): 7.60

# SAFETY DATA SHEET

## TAG MULTI



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	02/29/2024	F000005868	Date of first issue: 02/29/2024

---

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 129  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 0.7 µg/l

Bioconcentration factor (BCF): 250.9

Bioconcentration factor (BCF): 1.47

Bioconcentration factor (BCF): 83,000

Bioconcentration factor (BCF): 7,748

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 96  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 3.6 µg/l

Bioconcentration factor (BCF): 252

Bioconcentration factor (BCF): 108

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 25  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.6 µg/l

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 23  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.2 µg/l

Bioconcentration factor (BCF): 8.22

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 47  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.6 µg/l

Bioconcentration factor (BCF): 3,536

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 69  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.1 µg/l

Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 92

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 3.2 µg/l

Species: *Oncorhynchus mykiss* (rainbow trout)  
Bioconcentration factor (BCF): 34  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.7 µg/l

Bioconcentration factor (BCF): 107.1

Bioconcentration factor (BCF): 3,818

Species: *Oncorhynchus mykiss* (rainbow trout)  
Bioconcentration factor (BCF): < 25  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 1.1 µg/l

Bioconcentration factor (BCF): 102,000

Bioconcentration factor (BCF): 694,000

Species: *Oncorhynchus mykiss* (rainbow trout)  
Bioconcentration factor (BCF): 72  
Exposure time: 20 d  
Temperature: 59 °F / 15 °C  
Concentration: 2.8 µg/l

Partition coefficient: n-octanol/water

: log Pow: > 3 - 6.2  
pH: 6  
GLP: yes

log Pow: > 2.9 - < 5.7 (86 °F / 30 °C)  
pH: 7  
GLP: yes

log Pow: > 2.5 - < 7.6  
pH: 2  
GLP: yes

log Pow: > 1.9 - 7.7  
pH: 2  
GLP: yes

log Pow: > 0.9 - < 6.6 (86 °F / 30 °C)  
pH: 2  
GLP: yes

log Pow: 1.93 - 6.03 (75 °F / 24 °C)  
GLP: no

log Pow: > 2.3 - < 8.3  
GLP: yes

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

### Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene:

Partition coefficient: n-octanol/water : log Pow: > 7.17 - < 8.17 (86 °F / 30 °C)  
GLP: yes

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

# SAFETY DATA SHEET

## TAG MULTI



Version 1.0      Revision Date: 02/29/2024      SDS Number: F000005868      Date of last issue: -  
Date of first issue: 02/29/2024

---

### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

Not applicable

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
TOLUENE	108-88-3	100	100 (F005)

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.


**SARA 311/312 Hazards** : Reproductive toxicity  
Skin corrosion or irritation

**SARA 313** : 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.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### California Prop. 65

 **WARNING:** This product can expose you to chemicals including Ethyl acrylate, which is/are known to the State of California to cause cancer, and TOLUENE, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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## SECTION 16. OTHER INFORMATION

### Further information



# SAFETY DATA SHEET

## TAG MULTI



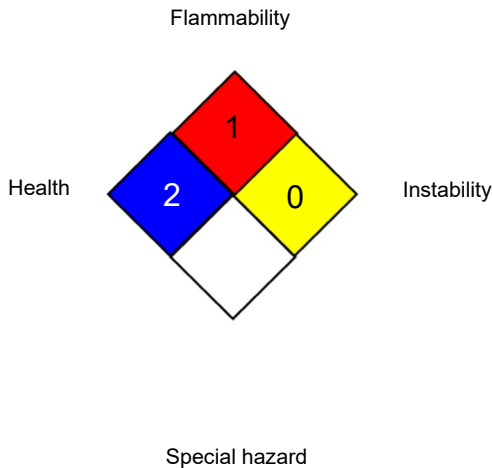
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### NFPA 704:



### HMIS® IV:

HEALTH		1
FLAMMABILITY		0
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / C : Ceiling limit
- NIOSH REL / C : Ceiling value not be exceeded at any time.
- OSHA P0 / C : Ceiling limit

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances

# SAFETY DATA SHEET

## TAG MULTI



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es; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 02/29/2024

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.

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