# MATERIAL SAFETY DATA SHEET

MSDS No.: P052WM

Date of Preparation: 2018/7/6

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Ab-Capcher MAG2

Product Number P-052

Supplier ProteNova Co., Ltd.

1488-1, Nishimura, Higashikagawa, Kagawa 769-2604 Japan

Phone Number +81-879-49-0702

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

ConstituentsCAS#% (v/v)FormulaEthanol64-17-5approx. 20 $C_2H_5OH$ 

Agarose 9012-36-6

### 3. HAZARDS IDENTIFICATION

**Emmergency Overview** Warning! Flammable liquid and vapor. Combustible.

Potential Health Effects Causes eye irritation. May cause respiratory tract and skin irritation.

Contains material that can cause target organ damage.

Potential Environmental

**Effects** 

Data not available

#### 4. FIRST AID MEASURES

Eye Contact Remove contact lenses, if applicable, and flush with clean water for more

than 15 minutes. Obtain medical attention if irritation persists.

Skin Contact Remove contaminated clothing immediately, and wash skin with plenty of

water and soap. Receive medical treatment if irritation persists.

Inhalation Move person into flesh air, keep person warm with blanketing and rest in a

respirable position. Receive medical treatment if feel sick.

**Ingestion** Rinse mouth with water, induce vomiting only if the person is conscious.

Receive medical treatment if feel unwellness.

### 5. FIRE FIGHTING MEASURES

Flammability of the

**Product** 

Flammable liquid. Move containers from fire area if this can be done without risk, or use water spray to keep fire-exposed containers cool. In a fire or if heated, the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Suitable Extinguishing

media

Water, CO<sub>2</sub>, Dry sand or powder.

### ACCIDENTAL RELEASE MEASURES

Personal precautions No flares, smoking or flames in hazard area. Avoid breathing vopor or mist.

Provide adequate ventilation.

Methods for Cleaning up Stop leak if without risk. Move containers from spill area. Wear appropriate

personal protective equipment, contain and collect spillage using non-combustible absorbent material e.g. sand, earth or diatomaceous earth and place in container for disposal according to lacal regulations (see section

13)

## 7. HANDLING AND STORAGE

**Handling** Use non-sparking tools. To avoid fire or explosion, dissipate static

electricity dureing transfer by grounding and bonding containers and

equipment before transferring material.

Use away from heat, sparks, open flame or any other ignition source.

Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. No not ingest. Workers should wash hands and face

after handling.

Keep in the original container or an approved alternative made from a

compatible material, kept tightly closed when not in use.

Avoid distribution hazards like drops and vibrations not to spill, leak, splash

or vapor.

Storage Store between the following temperatures: 4 to 8 °C in original container

protected from direct sunlight in a dry. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Eliminate all ignition

sources. Separate from oxidizing materials.

### 8. EXPOSURE CONTROL, PERSONAL PROTECTION

Control Limits Not established

**Exposure Limits** 

Japan Society for Occupational Health

Not established

ACGIH TLV (United

**States 2004)** 

TWA 1000ppm (1890 mg/m<sup>3</sup> 8hours)

ventilation or other engineering controls to keep worker exposure to airbone contaminants below any recommended or statutory limits. Ensure that eyewash stations and safty showers are close to the workstation

that eyemach stations and early showers are close to

Personal Protective

Equipment

Use adequate protect coat and protective goggle.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid. (Suspension)

Odor Sweetish. Alcohol-like. (Slight)

Color Solution : Colorless. / Suspension : Gray

Flash Point Closed cup: 38-43 °C

Ignition Temperature Data not available

Combustibility Combustible

Autoreactivity / Explodability

Data not available

**Solubility** Easily soluble in water.

### 10. STABILITY AND REACTIVITY

Autocombustibility Data not available Explosibility Range Data not available

Stability/Reactivity Stable and hazardous reaction will not occur under normal conditions of

storage or use.

Materials to avoid Keep away from ignition source.

### 11. TOXICOLOGICAL INFORMATION

Data not available for whole product./Following are data for Ethanol

Skin Corrosivity Data not available

Irritating Property (skin,

eye)

rabbit 400 mg open; Mild (skin)

rabbit 20 mg / 24H; Moderate (skin)

rabbit 500 mg; Severe (eye)
rabbit 500 mg / 24H; Mild (eye)

Sensitizing Property Data not abailable

Acute Toxicity (Including LD50)

Oral human  $LDL_0$  1400 mg/kg

rat LD<sub>50</sub> 7060 mg/kg

 $Percutaneous \ rabbit \qquad LDL_0 \qquad \qquad 20 \ g/kg$ 

Inhale mouse  $LCL_0$  39 g/m<sup>3</sup> /24H

rat  $LC_{50}$  20,000 ppm / 4H

Chronic ToxicityData not availableCarcinogenicityData not available

Mutagenicity Microbial Salmonella (+S9); positive

Chromosoma Hamster (ex vivo); positive

I disorder

Micronucleus mouse (in vivo/intraperitoneal); positive

Reproductive Toxicity Data not available
Teratogenicity Data not available

Other None

# 12. ECOLOGICAL INFORMATION

Biodegradability Ethanol : Biodegradable

Accumulativity Data not available

Fish Toxicity Data not available

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal

Burn in a chemical incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the

disposal.

### 14. TRANSPORT INFORMATION

International Transport Regulations

Not Classified. (Aqueous solutions containing 24% or less alcohol by volume

is not subject to these regulations)

International Classification / Ethanol

3 **UN Number** 1170

Transportation Method Confirm that none of content have been leaked. Load container with

protecting from direct sunlight. Prevent a fall or collapse of cargo not to

damage container.

### 15. REGULATORY INFORMATION

HCS Classification Not regulated

**US Federal Regulations** United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products

were found.

SARA 302/304/311/312 hazardous chemicals: Ethanol

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: Ethanol: Fire hazard, Immediate(acute) health hazard,

Delayed (chronic) health hazard

State regulation None of the components are listed.

#### 16. OTHER INFORMATION

Notice to Reader

The information contained herein is based on the best of our knowledge. However, the above-named supplier assumes no liability whatsoever for the accuracy or completeness of the information contained herein.