# STAGES .

# SAFETY DATA SHEET

## 1. Identification

Product identifier Master STAGES™ CLEAN 2029

Other means of identification

Synonyms Master STAGES™ CLEAN 2029 "One Step"

Recommended use Metal cleaners

**Recommended restrictions** Applicable for industrial settings only. No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name Master Fluid Solutions
Address 501 West Boundary

Perrysburg, Ohio 43551-1200

**United States** 

**Telephone** 419-874-7902

Website www.masterfluidsolutions.com
E-mail info@masterchemical.com

Emergency phone number CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Wash hands thoroughly after handling. Wear eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

# Mixtures

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET*		Proprietary*	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
TRADE SECRET*		Proprietary*	1 - < 3
TRIETHANOLAMINE		102-71-6	1 - < 3
Other components below rep	ortable levels		90 - 100

Material name: Master STAGES™ CLEAN 2029

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Inhalation** Move to fresh air.

**Skin contact** Wash affected area with mild soap and water.

None known.

**Eye contact** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control center.

Most important

symptoms/effects, acute and

delayed

**General information** Get medical attention, if needed.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical, CO2, water spray or alcohol resistant foam. Use fire-extinguishing media

appropriate for surrounding materials.

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters

Wear suitable protective equipment. Use standard firefighting procedures and consider the

hazards of other involved materials.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures For personal protection, see section 8 of the SDS. Keep unnecessary personnel away. Use

personal protective equipment as required.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Clean up in accordance with all applicable regulations.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Do not taste or swallow.

Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in a closed container. The product is stable and non-reactive under normal conditions of use,

storage and transport. Store in a dry place.

### 8. Exposure controls/personal protection

## Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	
TRIETHANOLAMINE (CAS	TWA	5 mg/m3	
102-71-6)			

Appropriate engineering

controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Eye wash fountain and emergency showers are

recommended.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety glasses.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Color Yellow
Odor Mild

Material name: Master STAGES™ CLEAN 2029
1208 Version #: 04 Revision date: 12-05-2022 Issue date: 08-30-2015

Not available. Odor threshold 11.3 - 11.7 pН Melting point/freezing point 24.8 °F (-4 °C) Initial boiling point and boiling 208.4 °F (98 °C)

range

216.1 °F (102.3 °C) Flash point

**Evaporation rate** < 1 BuAc Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Soluble Solubility (water) Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

Flash point class **ASTM D93-08** 10 - 11.5 pH in aqueous solution Specific gravity 1.024 - 1.132

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines.

Strong acids. Powerful oxidizers. Incompatible materials

Hazardous decomposition

products

To avoid thermal decomposition, do not overheat.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Not classified.

Eye contact May be irritating to eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May be irritating to eyes.

Information on toxicological effects

Not classified. **Acute toxicity** 

Material name: Master STAGES™ CLEAN 2029

SDS US

**Product Species Test Results** 

Master STAGES™ CLEAN 2029

Acute Dermal

LD50 Rabbit > 2000, mg/kg

Inhalation

Rat LC50 > 200, mg/l

Oral

LD50 Rat > 5000, mg/kg

Skin corrosion/irritation Not classified.

Serious eye damage/eye

irritation

May be irritating to eyes.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not classified. **Chronic effects** None known.

## 12. Ecological information

Not available. **Ecotoxicity** 

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations. Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Follow precautions for safe handling described in this safety data sheet.

### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

SDS US

## 15. Regulatory information

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not regulated.

SARA 311/312 Hazardous

No

chemical

# SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### **US state regulations**

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

 Issue date
 08-30-2015

 Revision date
 12-05-2022

Version # 04

**Disclaimer** 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. Master Fluid Solutions cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe

conditions for handling, storage and disposal of the product, and to assume liability for loss, injury,

damage or expense due to improper use.

Revision information Product and Company Identification: Disclosure Overrides

Composition / Information on Ingredients: Ingredients

Toxicological Information: Toxicological Data

Other information, including date of preparation or last revision: Disclaimer

HazReg Data: International Inventories

Material name: Master STAGES™ CLEAN 2029 SDS US