

SAFETY DATA SHEET

1. Identification

Product identifier	Master STAGES™ CLEAN F2™	
Other means of identification	None.	
Recommended use	Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)	
Recommended restrictions	Applicable for industrial settings only. No other uses are advised.	
Manufacturer/Importer/Supplier/Distributor information		

Manufacturer Master Fluid Solutions **Company Name** 501 West Boundary Street Address 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	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The mixture does not meet the criteria for classification.		
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
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	%
GLYCOL ETHER		34590-94-8	1 - < 3
Other components below reportable levels			90 - 100

*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.
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	

None known.

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 water jet as an extinguisher, as this will spread the 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	For personal protection, see section 8 of the SDS. Keep unnecessary personnel away. Use personal protective equipment as required.
emergency procedures	
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. Store in a closed container. The product is stable and non-reactive under normal conditions of use,

Conditions for safe storage, storage and transport. Store in a dry place. including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

Components	ts for Air Contaminants (29 CFR 1910. Type	Value
GLYCOL ETHER (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm
US. ACGIH Threshold Lin	nit Values	
Components	Туре	Value
GLYCOL ETHER (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards	
Components	Туре	Value
GLYCOL ETHER (CAS 34590-94-8)	STEL	900 mg/m3
		150 ppm
	TWA	600 mg/m3
		100 ppm
propriate engineering trols	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.	
vidual protection measure Eye/face protection	es, such as personal protective equip Safety glasses.	ment
Skin protection		
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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

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Physical state	Liquid.
Color	Blue
Odor	Mild citrus
Odor threshold	Not available.
рН	11.4 - 12.4
Melting point/freezing point	-2.2 °F (-19 °C)
Initial boiling point and boiling range	208.4 °F (98 °C)
Flash point	> 215.6 °F (> 102.0 °C)
Evaporation rate	< 1 BuAc
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flash point class	ASTM D93-08
pH in aqueous solution	10.2 - 11.2
Specific gravity	0.982 - 1.086

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.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	To avoid thermal decomposition, do not overheat.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.	
Eye contact	Not classified.	
Skin contact	Not classified.	
Inhalation	No adverse effects due to inhalation are expected.	

Symptoms related to the None known. physical, chemical and toxicological characteristics

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Information on toxicological effe	ects		
Acute toxicity	Not classified.		
Product	Species	Test Results	
Master STAGES™ CLEAN F2™			
Acute			
Dermal	D 111		
LD50	Rabbit	> 2000, mg/kg	
Inhalation	D .	004	
LC50	Rat	> 204, mg/l	
Oral	Det	5000 malla	
LD50	Rat	> 5000, mg/kg	
Skin corrosion/irritation	Not classified.		
Serious eye damage/eye irritation	Not classified.		
Respiratory or skin sensitization	ı		
Respiratory sensitization	Not classified.		
Skin sensitization	This product is not expected to	cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
OSHA Specifically Regulate	d Substances (29 CFR 1910.10	01-1052)	
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	1		
Ecotoxicity	Not available.		
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 consideration	าร		
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		ken to an approved waste handling site for recycling or disposal. ndling described in this safety data sheet.	

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

SARA 302 Extremely hazardous substance

Not listed.

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

*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	05-20-2015
Revision date	10-09-2018
Version #	03
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.

Hazard(s) identification: Hazard statement Hazard(s) identification: Prevention Hazard(s) identification: Response Hazard(s) identification: GHS Signal Words Fire-fighting measures: Special protective equipment and precautions for firefighters Exposure controls/personal protection: Appropriate engineering controls Toxicological Information: Toxicological Data Toxicological information: Aspiration hazard Toxicological information: Respiratory sensitization Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure Regulatory information: California Proposition 65 HazReg Data: International Inventories