

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Master STAGES™ CLEAN 2115		
Other means of identification	None.		
Recommended use	Metal Working Fluids.		
<b>Recommended restrictions</b>	Applicable for industrial settings only. No other uses are advised.		
Manufacturer/Importer/Supplier	Distributor information		
Manufacturer			
Company Name	Master Chemical Corp d/b/a Master Fluid Solutions		
Address	501 West Boundary Street		
	Perrysburg, Ohio 43551-1200		
	United States		
Telephone	419-874-7902		
Website	www.masterchemical.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 2B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Causes eye irritation.	
Precautionary statement		
Prevention	Wash hands thoroughly after handling.	
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 accordation	ance 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	%
TRIETHANOLAMINE		102-71-6	10 - < 20
TRADE SECRET*		Proprietary*	5 - < 10
MONOETHANOLAMINE		141-43-5	3 - < 5
TRADE SECRET*		Proprietary*	1 - < 3
Other components below reportab	le levels		70 - < 80

\*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 Ingestion	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. In the unlikely event of swallowing contact a physician or poison control center.
Most important symptoms/effects, acute and delayed	None known.
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.

Use standard firefighting procedures and consider the hazards of other involved materials.

Special protective equipment and precautions for firefighters

## 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.

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**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	PEL	6 mg/m3
		3 ppm
US. ACGIH Threshold Limit	Values	
Components	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	6 ppm
	TWA	3 ppm
TRIETHANOLAMINE (CAS 102-71-6)	TWA	5 mg/m3
US. NIOSH: Pocket Guide to	o Chemical Hazards	
Components	Туре	Value
MONOETHANOLAMINE (CAS 141-43-5)	STEL	15 mg/m3
х , ,		6 ppm
	TWA	8 mg/m3
		3 ppm
propriate engineering trols		ust ventilation, or other engineering controls to control airborne re limits. Eye wash facilities and emergency shower must be st.

Individual protection measures, such as personal protective equipment		
Eye/face protection	Safety glasses.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves	

Wear appropriate chemical resistant gloves.

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

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ſ	Physical state	Liquid.
(	Color	Pale yellow
Odor	r	Mild, sweet
Odoı	r threshold	Not available.
рΗ		9.6 - 9.8
Melti	ing point/freezing point	17.6 °F (-8 °C)
Initia rang	al boiling point and boiling	212 °F (100 °C)
Flas	h point	> 219.2 °F (> 104.0 °C)
Evap	poration rate	< 1 BuAc
Flam	nmability (solid, gas)	Not applicable.
Uppe	er/lower flammability or exp	losive limits
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
I	Explosive limit - lower (%)	Not available.
ſ	Explosive limit - upper (%)	Not available.
Vapo	or pressure	Not available.
Vapo	or density	Not available.
Rela	tive density	Not available.
Solu	bility(ies)	
ę	Solubility (water)	Soluble
	ition coefficient ctanol/water)	Not available.
Auto	-ignition temperature	Not available.
Decc	omposition temperature	Not available.
Visc	osity	Not available.
Othe	er information	
I	Flash point class	ASTM D93-08
I	pH in aqueous solution	8.8 - 9.6
(	Specific gravity	0.998 - 1.103
10.	Stability and reactivity	

# 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	Powerful oxidizers. Strong reducing agents.
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 eff	ects		
Acute toxicity	Not classified.		
Product	Species	Test Results	
Master STAGES™ CLEAN 2115			
Acute			
Dermal		//	
LD50	Rabbit	> 2000, mg/kg	
Inhalation	Det	005	
LC50	Rat	> 205, mg/l	
<b>Oral</b> LD50	Rat	5 5000 ma/ka	
		> 5000, mg/kg	
Skin corrosion/irritation	Not classified.		
Serious eye damage/eye irritation	May be irritating to eyes.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Classification not possible. Not a respiratory sensiti		
Skin sensitization	This product is not expected to cause skin sensitize		
Germ cell mutagenicity	No data available to indicate product or any compo mutagenic or genotoxic.	nents present at greater than 0.1% are	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)		
Not regulated.			
Reproductive toxicity	This product is not expected to cause reproductive	or developmental effects.	
Specific target organ toxicity - single exposure	Classification not possible.		
Specific target organ toxicity - repeated exposure	Classification not possible.		
Aspiration hazard	Classification not possible. Not an aspiration hazard.		
Chronic effects	None known.		
12. Ecological information	1		
Ecotoxicity	Not available.		
Persistence and degradability	No data is available on the degradability of this prod	duct.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone potential, endocrine disruption, global warming pote		
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 be disposal company.	between the user, the producer and the waste	
Waste from residues / unused	Dispose of in accordance with local regulations.		

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

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

## 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 listed.

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

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name On in	ventory (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	09-01-2015
Revision date	06-28-2017
Version #	02
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 Chemical Corp d/b/a 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.

Identification: Recommended restrictions Exposure controls/personal protection: Appropriate engineering controls Toxicological Information: Toxicological Data HazReg Data: North America GHS: Classification