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SECTION 1. IDENTIFICATION

Product name : 888-1810C YELLOW OXIDE YELLOW OXIDE 8881810C

Product code : 00000000051925201 00000000051925201

Manufacturer or supplier's details

Company name of supplier : Master Builders-Construction Systems

US, LLC

Address : 23700 CHAGRIN BLVD

Beachwood OH 44122

Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation : Category 2

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

Specific target organ toxicity

- repeated exposure

Category 2 (Kidney)

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H350 May cause cancer.

H340 May cause genetic defects.

H373 May cause damage to organs (Kidney) through prolonged

or repeated exposure.

Precautionary Statements : Prevention:



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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust or mist.

P264 Wash face, hands and any exposed skin thoroughly after handling.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/ attention

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

No data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

Components

Chemical name	CAS-No.	Concentration (% w/w)
ethyleneglycol	107-21-1	>= 15 - < 20
Nonylphenol, branched, ethoxylated	68412-54-4	>= 5 - < 7
Diethylene glycol	111-46-6	>= 3 - < 5
Titanium dioxide	13463-67-7	>= 1 - < 3
Stoddard solvent	8052-41-3	>= 0.2 - < 0.3
Distillates (petroleum), solvent-	64741-88-4	>= 0.1 - < 0.2
refined heavy paraffinic		
Distillates (petroleum), solvent-	64741-89-5	>= 0.1 - < 0.2
refined light paraffinic; Baseoil —		
unspecified; [A complex combination		
of hydrocarbons obtained as the raf-		
finate from a solvent extraction pro-		
cess. It consists predominantly of		
saturated hydrocarbons having car-		
bon numbers predominantly in the		
range of C15 through C30 and pro-		
duces a finished oil with a viscosity of		



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less than 100 SUS at 100 oF (19cSt at 40 oC).]

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this material safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : Keep patient calm, remove to fresh air, seek medical atten-

tion.

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 : Clean mouth with water and drink afterwards plenty of water.

Induce vomiting immediately and call a physician.

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. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Causes skin irritation.

May cause genetic defects.

May cause cancer.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water



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fighting courses.

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 nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive equipment and emer-

gency 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.

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 exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Keep container tightly closed in a dry and well-ventilated Conditions for safe storage

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Keep only in the original container in a cool, well-ventilated

place.

Protect from direct sunlight. Store protected against freezing.

Materials to avoid No applicable information available.

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Further information on stor- : No data available

age stability

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
		exposure)	concentration	
ethyleneglycol	107-21-1	TWA value (Vapor frac- tion)	25 ppm	ACGIHTLV
		STEL value (Vapor frac- tion)	50 ppm	ACGIHTLV
		STEL value (Aerosol, inhalable.)	10 mg/m3	ACGIHTLV
		TWA (Vapor)	25 ppm	ACGIH
		STEL (Va- por)	50 ppm	ACGIH
		STEL (Inhalable fraction, Aerosol only)	10 mg/m3	ACGIH
		С	50 ppm 125 mg/m3	OSHA P0
Stoddard solvent	8052-41-3	TWA value	100 ppm	ACGIHTLV
		REL value	350 mg/m3	NIOSH
		Ceil_Time	1,800 mg/m3	NIOSH
		PEL	500 ppm 2,900 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 525 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	100 ppm	ACGIH
		TWA	350 mg/m3	NIOSH REL
		С	1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0
Titanium dioxide	13463-67-7	TWA value	10 mg/m3	ACGIHTLV
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total	15 mg/m3	OSHA Z-1



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1	I	dust)		1
		TWA (Total	10 mg/m3	OSHA P0
		dust)	101119/1110	
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
Distillates (petroleum), solvent-	64741-88-4	TWA value	5 mg/m3	ACGIHTLV
refined heavy paraffinic		(Inhalable fraction)	3	
		Ceil_Time	1,800 mg/m3	NIOSH
		REL value	350 mg/m3	NIOSH
		REL value (Mist)	5 mg/m3	NIOSH
		STEL value (Mist)	10 mg/m3	NIOSH
		PEL (Mist)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL	500 ppm 2,000 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Mist)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Distillates (petroleum), solvent-refined light paraffinic; Baseoil — unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 oF (19cSt at 40 oC).]	64741-89-5	TWA value (Inhalable fraction)	5 mg/m3	ACGIHTLV
		REL value (Mist)	5 mg/m3	NIOSH
		STEL value (Mist)	10 mg/m3	NIOSH
		PEL (Mist)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR

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(Mist)		1910.1000 (Table Z-1-A)
TWA (Mist)	5 mg/m3	OSHA Z-1
TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
TWA (Mist)	5 mg/m3	OSHA P0
TWA (Mist)	5 mg/m3	NIOSH REL
ST (Mist)	10 mg/m3	NIOSH REL

Engineering measures : No applicable information available.

Personal protective equipment

Respiratory protection : No applicable information available.

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 con-

centration of the dangerous substance at the work place.

Protective measures : Avoid contact with the skin, eyes and clothing.

No special measures necessary if stored and handled cor-

rectly.

Handle in accordance with good building materials hygiene

and safety practice.

Wearing of closed work clothing is recommended.

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 : paste

Color : yellow

Odor : of glycol

Odor Threshold : No data available

pH : approx. 8.5

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Melting point : No applicable information available.

Boiling point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

Flash point : No data available

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Upper explosion limit / Upper

flammability limit

No applicable information available.

Lower explosion limit / Lower

flammability limit

No applicable information available.

Vapor pressure : No data available.

Relative vapor density : No applicable information available.

Relative density : 1.8

Density : 1.8 g/cm3 (68 °F / 20 °C)

Bulk density : not applicable

Solubility(ies)

Water solubility : emulsifiable

Solubility in other solvents : No applicable information available.

Partition coefficient: n-

octanol/water

No data available.

Autoignition temperature : No applicable information available.

Decomposition temperature : No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Not explosive

Oxidizing properties : not fire-propagating

Self-heating substances : No data available

Sublimation point : No applicable information available.

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Molecular weight : No data available

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 reac-

ions

No decomposition if stored and applied as directed.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids

Strong bases

Strong oxidizing agents Strong reducing agents

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No data available.

Acute inhalation toxicity : Remarks: No data available.

Acute dermal toxicity : Remarks: No data available.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

system.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.



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Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration hazard expected.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

Components:

ethyleneglycol:

Partition coefficient: n- : log Pow: approx. -1.36 (73 °F / 23 °C) octanol/water : Method: Calculation Hansch/Leo

GLP: no data

Remarks: Information taken from reference works and the

literature.

Titanium dioxide:

Partition coefficient: n-

octanol/water

: Remarks: not applicable



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Stoddard solvent:

Partition coefficient: n- : log Pow: 3.5 - 6.4 (68 °F / 20 °C)

octanol/water Method: Partition coefficient (n-octanol/water), HPLC method.

Distillates (petroleum), solvent-refined heavy paraffinic:

Partition coefficient: n- : log Pow: > 4

octanol/water Method: other (calculated)

Distillates (petroleum), solvent-refined light paraffinic; Baseoil — unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 oF

(19cSt at 40 oC).]:

Partition coefficient: n- : log Pow: > 4.9

octanol/water Method: other (calculated)

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

There is a high probability that the product is not acutely

harmful to aquatic organisms.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Dispose of in accordance with national, state and local regula-

tions.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

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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

SECTION 15. REGULATORY INFORMATION

SARA 313 The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

ethyleneglycol 107-21-1

US State Regulations

Pennsylvania Right To Know

Titanium dioxide 13463-67-7 ethyleneglycol 107-21-1 Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 Diethylene glycol 111-46-6 Distillates (petroleum), solvent-refined light paraffinic; Baseoil 64741-89-5

- unspecified; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 oF (19cSt at 40 oC).]

listed

New Jersey Right To Know

Titanium dioxide 13463-67-7 ethyleneglycol 107-21-1 Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 Distillates (petroleum), solvent-refined light paraffinic; Baseoil 64741-89-5 - unspecified; [A complex combination of hydrocarbons ob-

tained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 oF (19cSt at 40 oC).]

listedSpecial Hazard.

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer, and



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ethyleneglycol, 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.

The ingredients of this product are reported in the following inventories:

TSCA On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Flammability Health Instability 2 0

Special hazard

HMIS® IV:



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

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1910.1000 1)

ACGIH USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

NIOSH Pocket Guide to Chemical Hazards (US) NIOSH NIOSH REL USA. NIOSH Recommended Exposure Limits

OSHA_{P0} USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

29 CFR 1910.1000 (Table Z- :

1-A) / TWA value

Time Weighted Average (TWA):

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

ACGIH / TWA 8-hour, time-weighted average Short-term exposure limit ACGIH / STEL

ACGIHTLV / STEL value Short Term Exposure Limit (STEL):



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ACGIHTLV / TWA value : Time Weighted Average (TWA):

NIOSH / Ceil_Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL): NIOSH / STEL value : Short Term Exposure Limit (STEL):

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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; (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; 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

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We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our com-



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mitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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