



# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
Substance name : High Strength Transparent Yellow Oxide Toner  
Product code : MMC-214

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Color By Design, Inc.  
407 W. Main  
Haven, KS 67543  
T 620-465-2600  
[info@colorbydesigninc.com](mailto:info@colorbydesigninc.com)

#### 1.4. Emergency telephone number

Emergency number : 620-728-4044

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 2	Highly flammable liquid and vapour
Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2B	Causes eye irritation
Germ cell mutagenicity Category 1B	May cause genetic defects
Carcinogenicity Category 1B	May cause cancer

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Highly flammable liquid and vapour  
Causes skin irritation  
Causes eye irritation  
May cause genetic defects  
May cause cancer

Precautionary statements (GHS US) :

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting equipment  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash hands, forearms and face thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of water  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If exposed or concerned: Get medical advice/attention.  
Specific treatment (see supplemental first aid instruction on this label)  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Take off contaminated clothing and wash it before reuse.  
In case of fire: Use media other than water to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name : High Strength Transparent Yellow Oxide Toner

Name	Product identifier	%	GHS US classification
Aromatic Hydrocarbon	(CAS-No.) 1330-20-7	32 - 38	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
YELLOW IRON OXIDE	(CAS-No.) 51274-00-1	6 - 16	Eye Irrit. 2B, H320 STOT SE 3, H335
solvent naphtha (petroleum), light aromatic	(CAS-No.) 64742-95-6	6 - 12	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
solvent naphtha (petroleum), heavy aromatic	(CAS-No.) 64742-94-5	2 - 6	Asp. Tox. 1, H304
naphtha (petroleum), hydrotreated heavy	(CAS-No.) 64742-48-9	2 - 6	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : 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.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Mild eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.  
Reactivity : Highly flammable liquid and vapour.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### YELLOW IRON OXIDE (51274-00-1)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

##### Aromatic Hydrocarbon (1330-20-7)

Not applicable

##### solvent naphtha (petroleum), light aromatic (64742-95-6)

ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
ACGIH	ACGIH TWA (ppm)	200 ppm
OSHA	OSHA PEL (TWA) (ppm)	200
OSHA	OSHA PEL (STEL) (ppm)	500

##### solvent naphtha (petroleum), heavy aromatic (64742-94-5)

Not applicable

##### naphtha (petroleum), hydrotreated heavy (64742-48-9)

Not applicable

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Color : Mixture contains one or more component(s) which have the following colour(s):  
Yellow Colourless to light yellow No data available on colour  
Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.  
Mixture contains one or more component(s) which have the following odour(s):  
Odourless Pleasant odour Aromatic odour No data available on odour  
Odor threshold : No data available  
pH : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : 265 - 399 °F  
Flash point : 69 °F TCC  
Relative evaporation rate (butyl acetate=1) : 1  
Flammability (solid, gas) : Not applicable.  
Vapor pressure : 110 mm Hg @20 °C  
Relative vapor density at 20 °C : No data available  
Relative density : 1.01  
Solubility : Insoluble in water.  
Log Pow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosion limits : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

YELLOW IRON OXIDE (51274-00-1)	
LD50 oral rat	> 10000 mg/kg body weight (Rat, Male, Experimental value)
LD50 dermal rat	5500 mg/kg
ATE US (dermal)	5500.000 mg/kg body weight

Aromatic Hydrocarbon (1330-20-7)	
LD50 oral rat	> 3608 mg/kg (Rat)
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

solvent naphtha (petroleum), light aromatic (64742-95-6)	
LD50 oral rat	3492 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (ppm)	> 6193 ppm/4h
ATE US (oral)	3492.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : May cause genetic defects.  
Carcinogenicity : May cause cancer.

Aromatic Hydrocarbon (1330-20-7)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified  
Specific target organ toxicity – single exposure : Not classified

solvent naphtha (petroleum), light aromatic (64742-95-6)	
Target organ(s)	liver kidneys central nervous system

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified  
Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : Mild eye irritation.

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

##### Aromatic Hydrocarbon (1330-20-7)

LC50 fish 1	2.6 - 8.4 mg/l (Salmo gairdneri)
EC50 Daphnia 1	1.4 - 4.7 mg/l (48 h, Daphnia magna)

#### 12.2. Persistence and degradability

##### YELLOW IRON OXIDE (51274-00-1)

Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
BOD (% of ThOD)	Not applicable (inorganic)

##### Aromatic Hydrocarbon (1330-20-7)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.40 - 2.53 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.56 - 2.91 g O <sub>2</sub> /g substance
ThOD	3.1 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.44 - 0.816

#### 12.3. Bioaccumulative potential

##### YELLOW IRON OXIDE (51274-00-1)

Bioaccumulative potential	No bioaccumulation data available.
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##### Aromatic Hydrocarbon (1330-20-7)

BCF fish 1	14.1 - 24 (Pisces)
BCF fish 2	14.1 - 15 (Carassius auratus)
Log Pow	3.15 - 3.3 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

##### solvent naphtha (petroleum), light aromatic (64742-95-6)

Log Pow	2.1 - 6
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#### 12.4. Mobility in soil

##### YELLOW IRON OXIDE (51274-00-1)

Surface tension	Not applicable (solid)
Ecology - soil	Adsorbs into the soil.

##### Aromatic Hydrocarbon (1330-20-7)

Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
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#### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1263 Paint, 3, III
UN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Transport document description (IMDG)	: UN 1263 PAINT, 3, III
UN-No. (IMDG)	: 1263
Proper Shipping Name (IMDG)	: PAINT
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 L

#### Air transport

Transport document description (IATA)	: UN 1263 Paint, 3, III
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# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

UN-No. (IATA)	: 1263
Proper Shipping Name (IATA)	: Paint
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### **YELLOW IRON OXIDE (51274-00-1)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### **Aromatic Hydrocarbon (1330-20-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 100 lb

##### **solvent naphtha (petroleum), light aromatic (64742-95-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### **solvent naphtha (petroleum), heavy aromatic (64742-94-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### **naphtha (petroleum), hydrotreated heavy (64742-48-9)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

##### **YELLOW IRON OXIDE (51274-00-1)**

Listed on the Canadian DSL (Domestic Substances List)

##### **Aromatic Hydrocarbon (1330-20-7)**

Listed on the Canadian DSL (Domestic Substances List)

##### **solvent naphtha (petroleum), light aromatic (64742-95-6)**

Listed on the Canadian DSL (Domestic Substances List)

##### **solvent naphtha (petroleum), heavy aromatic (64742-94-5)**

Listed on the Canadian DSL (Domestic Substances List)

##### **naphtha (petroleum), hydrotreated heavy (64742-48-9)**

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

##### **Aromatic Hydrocarbon (1330-20-7)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Revision date : 12/07/2018



# High Strength Transparent Yellow Oxide Toner

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H350	May cause cancer

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*