

SAFETY DATA SHEET

Flex Dimensions/ Rolled Multicolor

Compliant SDS for GHS: HazCom 2012 / United States

Reviewed on 06/15/2016

1. Identification

Product identifier:

Product name Flex Dimensions/ Rolled Multicolor

Product type Liquid

Other means of identification:

Synonyms FLX

Recommended use and restrictions on use

Recommended use Interior paintable surfaces of commercial spaces..

Restrictions on use Avoid floors, standing water and some horizontal surfaces.

Manufacturer/Importer/Supplier/

Distributor informationMaster Coating TechnologiesManufacturer2777 Eagandale Boulevard

Eagan, MN 55121

Information Phone: 1-800-765-6699 Emergency Phone: 1-800-535-5053

Emergency Telephone Number

2. Hazard(s) identification

OSHA/HCS status This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Physical Hazards Not classified.

Health Hazards Acute toxicity, Inhalation Category 4

Serious eye damage/eye irritation Category 2A Sensitization, Skin Category 1

Unknown Toxicity 2.4% of the mixture consists of ingredient(s) of unknown toxicity.

GHS Label elements



Signal word Warning

Hazard statements Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin

reaction.

Precautionary statements

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work

clothing should not be allowed out of the workplace.

Response IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable

for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. "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. IF ON SKIN: wash with plenty of soap and water. IF SKIN irritation or rash occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Store locked up. Storage

Dispose of contents and container in accordance with all local, regional, national Disposal

and international regulations.

Hazard(s) not otherwise classified

(HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	Percentage (wt/wt)
Titanium dioxide	13463-67-7	12.6
Silicon dioxide	7631-86-9	6
Ammonium hydroxide	1336-21-6	0.2

The criteria for listing components in the composition are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 15 for applicable states right-to-know and other regulatory information.

4. First-aid measures

Description of necessary first aid measures:

Inhalation If affected, remove from exposure. Restore breathing.

Skin contact Wash affected area with soap and water. If irritation persists, get medical

Eye contact Flush immediately with water for 15 minutes. If irritation persists, get

No specific symptoms noted.

medical attention.

Do not induce vomiting. If prolonged discomfort, see physician Ingestion

Most important symptoms and

effects, both acute or delayed

Indication of immediate medical

attention and special treatment needed

No information available.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the

chemical

Special protective equipment and

precautions for firefighters

Liquid material should not burn. Dried material will support combustion.

No information available.

Containers may explode when exposed to extreme heat. Water may be

used to cool unruptured containers.

No information available.

6. Accidental release measures

Personal precautions, protective

For non-emergency personnel: No action shall be taken involving any

equipment and emergency procedures

personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value
Titanium dioxide	PEL (TWA)	15 mg/m ³

C:1: 1: : 1	DEL (T\A/A)	20 (100 / 3/0/5:0)
l Silicon dioxide	l PFL (TWA)	20 mppcf (80 mg/m³/%SiO ₂)
••	1 ()	= 0pp 0. (00p/ / /00.02/

US. OSHA Table Z-1 (29 CFR 1910.1000)

Components	Туре	Value
Titanium dioxide	TWA	15 mg/m³ (Total dust)

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the ingredients of this product are listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Co	omponents	Туре	Value
Si	ilicon dioxide	TWA	20 mppcf, 80 mg/m3/%SiO ₂

US. ACGIH Threshold Limit Values

Chemical name	Туре	Value
Titanium dioxide	TLV (TWA)	10 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Chemical name	Туре	Value
Silicon dioxide	REL (TWA)	6 mg/m ³

Appropriate engineering controls

Respiratory equipment

Use NIOSH/MSHA approved respirator if vapor mist exceeds TLV. Not usually required.

Hand protection

Eye protection

Safety glasses or goggles.

None.

Other protection

General hygiene considerations

Keep away from foodstuff, beverages, and feed. Wash hands before breaks

Mechanical ventilation may be necessary during and after application.

and at the end of work.

9. Physical and chemical properties

Appearance Pigmented.

ColorNo information available.OdorNo information available.Odor thresholdNo information available.pHNo information available.Melting point/freezing pointNo information available.

Initial boiling point/Boiling range 212°F / 100°C

Flash point

Evaporation rate

Flammability (solid, gas)

Lower flammability/explosive limit

Upper flammability/explosive limit

Vapor pressure

No information available.

No information available.

No information available.

Vapor densityHeavier Than Air.Liquid DensityHeavier Than Water.

Volatiles by Volume 73.55%
Volatiles by Weight 65.87%
Weight per Gallon 9.49 Pounds
Specific gravity 1.139

SolubilityNo information available. **Partition coefficient -n-octanol/water**No information available.

Auto-ignition temperature No information available. **Decomposition temperature** No information available.

No information available. Viscosity

VOC Less than 60 grams per liter (0.50 lb/gal.) coating / 25 grams

per liter (0.20 lb/gal.) material

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable.

Possibility of hazardous reactions Hazardous Polymerization will not occur.

Conditions to avoid Do not permit water reactive materials to mix with this product.

Incompatible materials No hazardous reactions are expected to occur, except strong oxidizers and

materials which react with water.

Hazardous decomposition products Incomplete combustion may release carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

Prolonged or repeated exposure may cause irritation. Skin contact

Eye contact Causes serious eye irritation. Symptoms related to the physical, No information available.

chemical and toxicological

characteristics

Delayed and immediate effects and

chronic effects from short- and

long-term exposure

No information available.

Numerical measures of toxicity

Chemical Name Oral LD₅₀ Dermal LD₅₀ Inhalation LC₅₀ Titanium dioxide >5,000 mg/kg (Rat) No information available >3.43 mg/l (Rat), 4h (CAS # 13463-67-7) (Powder) > 0.69 mg/l (Rat), 4h (dust) Silicon dioxide (CAS # 7631-86-9) >3,300 mg/kg (Rat) >2,000 mg/kg (Rabbit) Ammonium hydroxide 350 mg/kg (Rat) No information available No information available (CAS# 1336-21-6)

Skin corrosion/irritation No information available. Serious eye damage/eye irritation Causes serious eve irritation. Respiratory or skin sensitization

Respiratory sensitization No information available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No information available.

Carcinogenicity IARC Monograph No. 93 reports there is sufficient evidence of carcinogenicity in

> experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is

thought to occur during the use of products in which titanium is bound to other

materials, such as paint."

Reproductive toxicity No information available. Specific target organ toxicity -

No information available.

single exposure

Specific target organ toxicity -

repeated exposure **Aspiration hazard**

No information available.

No information available.

12. Ecological information

Numerical measures of toxicity

Chemical Name Test **Test Results** Species Silicon dioxide (CAS # 7631-86-9) Algae EC₅₀ Microalga 1000 mg/l, 72h

(Pseudokirchneriella subcapitata)

Ammonium hydroxide Fish LC₅₀

(CAS# 1336-21-6)

Coho salmon

0.45 mg/l, 96h

(Oncorhynchus kisutch)

Persistence and degradability

Bioaccumulative potential Mobility in soil

Other adverse effects

There are no data on the degradability of this product.

No data available on bioaccumulation.

No data available. Not available.

13. Disposal considerations

Disposal instructions

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

In accordance with DOT In accordance with IMDG In accordance with IATA

Not regulated for transport. Not regulated for transport. Not regulated for transport.

15. Regulatory information

United States

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

All the components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients of this product are listed.

US. OSHA Specifically Regulated Substances (29 CFR

1910.1001-1050)

Titanium dioxide (CAS # 13463-67-7) Listed Silicon dioxide (CAS # 7631-86-9) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Name CERCLA RQ

Ammonium hydroxide (CAS# 1336-21-6) 1,000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302/304 Extremely hazardous substance

Hazard categories

None of the ingredients of this product are listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

This product does not contain any toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372.

Other federal regulations

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

None of the ingredients of this product are listed.

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

None of the ingredients of this product are listed.

Safe Drinking Water Act (SDWA)

None of the ingredients of this product are listed.

US State regulations

US. New Jersey Worker and Community Right-to-Know Act

Titanium dioxide (CAS# 13463-67-7)

Ammonium hydroxide (CAS# 1336-21-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Titanium dioxide (CAS# 13463-67-7)

Silicon dioxide (CAS# 7631-86-9)

Ammonium hydroxide (CAS# 1336-21-6)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

No ingredients in this product are subject Prop 65.

International Inventories

Country(s	s) or region	Inventory name	On inventory (yes/no)
Canada		Domestic Substances List (DSL)	Yes
Canada		Non- Domestic Substances List (NDSL)	No
Europe		European Inventory of Existing Commercial	No
		Chemical Substances (EINECS)	
Europe		European List of Notified Chemical	No
		Substances (ELINCS)	
United St	ates & Puerto	Toxic Substances Control Act (TSCA)	Yes
Rico		Inventory	

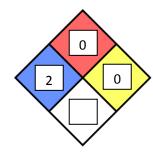
^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

Revision date Revision NFPA rating 06/15/2016

_



Key to abbreviations

ACGIH: Documentation of the Threshold Limit Values and Biological

Exposure indices

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals

IATA :International Air Transport Association IMDG : International Maritime Dangerous Goods

NIOSH: The National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.