



SAFETY DATA SHEET

Section 1. Identification

Product name: **MASTERFLEX REFLECTIVE**

Product code:

Gallon	Pail
VV1235	VV1236

Other means of identification: Not available.

CAS #: Not applicable

Recommended restrictions: None know.

Manufacturer: **Master Paints & Chemical Corp.**
Carr. #127 Km 12.7. Bo. Magas,
Guayanilla P.R. 00656
Phone number: (787) 835-4000 / (787) 835-4001
Fax Number: (787) 835-2965
E-Fax: 787-9667180
www.mastergroup-pr.com

EMERGENCY PHONE NUMBER: **(INFOTRAC): 800 - 535-5083**

Section 2. Hazard identification

Physical hazards: Not classified.

Health hazards: Not Classified.

OSHA defined hazards: Not classified.

Label elements

Hazard pictograms: None.

Signal word: None.

Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Obtain special instruction before use. Do not handle until all Safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep out of reach of children.

Response: Wash hands after handling. If exposed or concerned, get medical attention

Storage: Store locked up in a dry and well ventilated environment.



SAFETY DATA SHEET

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazard(s) not otherwise Classified (HNOC): None known.

Supplemental information: None.

Section 3. Composition / information on ingredients

Substance / mixture: Mixture.

Other means of identification: Not available.

CAS number /other identifiers

Ingredient name	Cas Number	Weight maximum concentration %
Titanium Dioxide	13463-67-7	10.00
Limestone	1317-65-3	30.00
Modified acrylic polymer	Supplier trade secret	40.00

The exact composition and percentage (concentration) has been withheld as a trade secret in order to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water. Occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water. Seek immediate medical attention.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, Direct contact with eyes may cause temporary irritation.



SAFETY DATA SHEET

acute and delayed:

Indication of immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5. Fire- fighting measures

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from The Chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products: Decomposition products may include the following materials: Carbon dioxide, carbon monoxide and /or metal oxide /oxides.

Special protective actions for fire – fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment Precautions for fire-fighters: Fire- fighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

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

General fire hazards: No unusual fire or explosion hazards noted.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. For personal protection, see section 8 of the SDS

Methods and materials for containment and cleaning up: This product is moderately soluble in water. Should not be released into the environment

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills:



SAFETY DATA SHEET

Environmental precautions:

Wipe up with absorbent material; e.g. cloth or fleece. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and storage

Precautions for safe handling

Protective measures:

Put on appropriate personal protective equipment (see section 8). Avoid exposure and obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest.

Avoid breathing vapor or mist. If during normal use the material presents a respirator hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. 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. 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.

Section 8. Exposure controls/personal protection

Occupational exposure limits (OSHA United States)

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure
Limestone 1317-65-3	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Titanium Dioxide 13463-67-7	TWA: 15 mg/m ³ 8 hours. Form: Total dust	TWA: 10mg/m ³ 8 hours	Not Established

Biological limit values:

No biological exposure limits noted for the ingredient(s).



SAFETY DATA SHEET

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection:

Hand protection:

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products is a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the time to breakthrough for any glove material may be different for different protection time of the gloves cannot be accurately estimated.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risk involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



SAFETY DATA SHEET

Section 9. Physical and chemical properties

Appearance:	White to milky clear liquid
Physical state:	Liquid
Color:	Various.
Odor:	Slightly ammoniacal.
Odor threshold:	Not available
pH:	8 – 9.0
Melting point / freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	<1 (n-BuAc=1)
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive 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:	>1 (air = 1)
Solubility(ies):	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Other information	
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Viscosity Stormer (KU):	105.0 +/- 5.0
Density:	1.438
VOC (g/L):	< 50

Section 10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable under normal conditions
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	No specific data
Hazardous decomposition products:	



SAFETY DATA SHEET

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity: Not available

Irritation / Corrosion:

Product / Ingredient name	Result	Species	Score	Exposure	Observation
Titanium Dioxide	Skin Mild irritant	Human	-	72hours 300 Micrograms Intermittent	-

Sensitization: Not available

Mutagenicity: Not available

Carcinogenicity: Not available

Classification

Product / Ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Reproductive toxicity: Not available

Teratogenicity: Not available

Specific target organ toxicity (single exposure) Not available

Specific target organ toxicity

(repeated exposure): No classified

Aspiration hazard: Not available

Information on the likely routes of exposure: Not available

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.



SAFETY DATA SHEET

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available

Potential chronic effects: Not available

General: No known significant effects or critical hazards.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not available

Section 12. Ecological information

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or managing effect on the environment.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in soil: This product is moderately water soluble and may disperse in soil.

Other adverse effects: None known.

Section 13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the manufacturer and the waste disposal company.

Waste from residues / unused products Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see disposal instructions).

Contaminated packaging: Empty containers may retain product residue, follow label warnings even after container is emptied. Empty container should be taken to an approved waste handling site for recycling or disposal.



SAFETY DATA SHEET

Section 14. Transport information

	DOT Classification	IATA	IMDG
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	-

Transport in bulk according to annex II of MARPOL and IBC Code: Not available.

Proper shipping name:

Ship type:

Not available.

Pollutions category:

Not available.

Not available.

Section 15. Regulatory information

US federal regulations:

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

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

Not regulated.

OSHA Specifically regulated Substances (29 CFR 1910.1001-1050):

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4):

Any

SARA 313:

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

Section 16. Other information

Hazardous Material Information System (USA) (HMIS ® ratings)

Health: 1

Flammability: 0

Physical hazards: 0



SAFETY DATA SHEET

Caution: HMIS[®] ratings are based on 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS[®] ratings are not required on SDSs under 29CFR 1910. 1200, the preparer may choose to provide them. HMIS[®] are to be used with a fully implemented JHMIS[®] program. HMIS[®] is a registered mark of the National Paint & Coatings Association (NPCA). HMIS[®] materials may be purchased exclusively from J.J. Keller (800) 327 – 6868.

Key to abbreviations:

SDS: Safety Data Sheet

ATE = Acute Toxicity

BCF = Bioconcentration factor

GHS = Globally Harmonized System of classification and Labelling of chemicals.

IATA = International Air Transport Association

IMDG:

IBC = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the prevention of pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Disclaimer:

Master Paints & Chemical Corporation, cannot anticipate all conditions under which this information and its product, or the products of other manufacturers 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. The information in the sheet was written based on the best knowledge and experience currently available.

Reviewer Revision

Date of issue / date of revision: 04/04/2018

Date of previous revision: 05/30/2015

Revision number: 4