

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/18/2015

Reviewed on 06/18/2015

1 Identification

- **Product identifier**
- **Trade name:** W15-T Markover
- **Article number:** W15-T-G
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Marsh Shipping Supply Co., LLC
926 McDonough Lake Road - Unit E
Collinsville, IL 62234
USA
- **Information department:** customerservice@msscllc.com
- **Emergency telephone number:**
Infotrac
1 800 535 5053
352 323 3500 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- **Additional information:**
The pigment Titanium Dioxide CAS# 13463-67-7 is suspected of causing cancer when inhaled as a dust form. This pigment is bound in the ink, and under normal conditions of use the exposure to the dust form is not likely.

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- **Label elements**
 - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms** GHS08
 - **Signal word** Warning
 - **Hazard-determining components of labeling:**
titanium dioxide
 - **Hazard statements**
Suspected of causing cancer.
 - **Precautionary statements**
Wear protective gloves/protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Information pertaining to particular dangers for man and environment:**
 - **Potential Chronic Health Effects** Irritation of skin or organs.

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- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Hazardous components**

471-34-1	calcium carbonate		9.594%
57-55-6	propane-1,2-diol	⚠ Acute Tox. 4, H302	1.08%
1332-37-2	Iron oxide		0.451%
546-93-0	Magnesite		0.196%

- **Additional information:**

This product contains pigments which may become a dust nuisance when removed by abrasive blasting or sanding. Airborne nuisance particulates have an ACGIH TLV for total dust of 10mg/M3

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is a concurrent exposure to other fibrosis-producing materials such as silica. The TLV is set to protect against siderosis.

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

Take affected persons out into the fresh air.

Involve doctor immediately.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Immediately rinse with water for 15 minutes. If irritation exists call physician.

- **After eye contact:**

Rinse opened eye for fifteen minutes under running water. If irritation persists, consult a doctor.

- **After swallowing:** Do not induce vomiting; immediately call for medical help.

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
vinyl acetate monomer
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Handle with care. Avoid jolting, friction and impact.
Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing or moving, observe grounding/grounding of containers and other equipment when handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from humidity and water.
Protect from exposure to the light.

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· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

471-34-1 calcium carbonate

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

57-55-6 propane-1,2-diol

WEEL	Long-term value: 10 mg/m ³
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1332-37-2 Iron oxide

PEL	Short-term value: 15 mg/m ³
REL	Long-term value: 1 mg/m ³ as Fe
TLV	Long-term value: 1 mg/m ³ as Fe

546-93-0 Magnesite

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Use only with adequate ventilation.

· **Protection of hands:**

Neoprene gloves

Impervious gloves

· **Material of gloves** Nitrile rubber, NBR· **Eye protection:** Goggles recommended during refilling.· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: Pale

· Odor: Alcohol-like

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: 68 °C (154 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

· Density at 20 °C (68 °F): 1.28533 g/cm³ (10.726 lbs/gal)

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

Water: Partly soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· Solvent content:

Organic solvents: 1.1 %

Water: 53.7 %

VOC content: 1.1 %

44.8 g/l / 0.37 lb/gal

Solids content: 44.4 %

· Other information: No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Nitrogen oxides
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

13463-67-7	titanium dioxide	2B	6.147%
13983-17-0	Wollastonite	3	4.9%
7631-86-9	silicon dioxide, chemically prepared	3	0.41%
1333-86-4	Carbon black	2B	0.06%
75-07-0	acetaldehyde	1	0.0002%
108-05-4	vinyl acetate	2B	0.0002%
140-88-5	ethyl acrylate	2B	0.00004%

· NTP (National Toxicology Program)

75-07-0	acetaldehyde	R	0.0002%
140-88-5	ethyl acrylate	R	0.00004%

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** This statement was deduced from the properties of the single components.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

This material and containers that are not empty, if discarded, would be regulated as a hazardous waste under RCRA. Treatment and disposal must be completed at a RCRA permitted treatment, storage, and disposal facility (TSD). The storage and transportation of RCRA hazardous wastes are also regulated by the USEPA.

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· DOT, ADR, ADN, IMDG, IATA Void

· **UN proper shipping name**

· DOT, ADR, ADN, IMDG, IATA Void

· **Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class Void

· **Packing group**

· DOT, ADR, IMDG, IATA Void

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Bulk packaging may be regulated / classified differently than non-bulk depending on mode of transport

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **40 CFR Section 355 (extremely hazardous substances):**

108-05-4 vinyl acetate

* 0.0002%

· **Section 313 (Specific toxic chemical listings):**

7632-00-0 sodium nitrite

0.04%

75-07-0 acetaldehyde

0.0002%

108-05-4 vinyl acetate

0.0002%

140-88-5 ethyl acrylate

0.00004%

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· **SARA Title III Section 311/312 - Hazard Communication Standard (40 CFR 370)**

471-34-1	calcium carbonate	9.594%
13463-67-7	titanium dioxide	6.147%
57-55-6	propane-1,2-diol	1.08%
	Proprietary surfactant blend ingredients	0.451%
68412-54-4	Poly (Oxy-1,2-Ethanediy), alpha-(Nonphenyl)-	0.287%
34375-28-5	2(Hydroxymethyl)amino)ethanol	0.24%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	0.082%
7632-00-0	sodium nitrite	0.04%
108-05-4	vinyl acetate	0.0002%

· **RCRA: Resource Conservation and Recovery Act / Code**

75-07-0	acetaldehyde	Code: U001 , RQ:1000 lbs	0.0002%
140-88-5	ethyl acrylate	U113	0.00004%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt.

25067-01-0	P(BA/VAC)
471-34-1	calcium carbonate
13463-67-7	titanium dioxide
51274-00-1	Iron Oxide Yellow
57-55-6	propane-1,2-diol
	Rheological Additive
	Proprietary surfactant blend ingredients
1332-37-2	Iron oxide
7631-86-9	silicon dioxide, chemically prepared
68412-54-4	Poly (Oxy-1,2-Ethanediy), alpha-(Nonphenyl)-
21645-51-2	aluminium hydroxide
34375-28-5	2(Hydroxymethyl)amino)ethanol
546-93-0	Magnesite
	trade secret acrylic polymers
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol

· **Proposition 65 /Chemicals known to cause cancer:**

WARNING: This product may contain trace amounts of chemicals known to the State of California to cause cancer and/or reproductive harm.

13463-67-7	titanium dioxide	6.147%
1333-86-4	Carbon black	0.06%
75-07-0	acetaldehyde	0.0002%
140-88-5	ethyl acrylate	0.00004%

· **Clean Air Act- Hazardous Air Pollutants**

57-55-6	propane-1,2-diol	SOCMI	1.08%
75-07-0	acetaldehyde	XOP, SOCMI	0.0002%
108-05-4	vinyl acetate	SOCMI, XOY	0.0002%
140-88-5	ethyl acrylate	XOV, SOCMI	0.00004%

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· **Clean Water Act: Section 311(b)(2)(A) & Priority Pollutants**

7632-00-0	sodium nitrite	RQ 100 lbs	0.04%
75-07-0	acetaldehyde	RQ: 1000lbs	0.0002%
108-05-4	vinyl acetate	5,000 lbs	0.0002%

· **ACGIH Carcinogen**

13463-67-7	titanium dioxide	A4	6.147%
75-07-0	acetaldehyde	A3	0.0002%
108-05-4	vinyl acetate	A3	0.0002%
140-88-5	ethyl acrylate	A4	0.00004%

· **Cancerogenity categories**· **EPA (Environmental Protection Agency)**

75-07-0	acetaldehyde	B2	0.0002%
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· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	titanium dioxide	A4	6.147%
1333-86-4	Carbon black	A4	0.06%
75-07-0	acetaldehyde	A3	0.0002%
108-05-4	vinyl acetate	A3	0.0002%
140-88-5	ethyl acrylate	A4	0.00004%

· **NIOSH (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide	*	6.147%
1333-86-4	Carbon black	*	0.06%
75-07-0	acetaldehyde	*	0.0002%
108-05-4	vinyl acetate	Std. 78-205	0.0002%
140-88-5	ethyl acrylate	*	0.00004%

· **CERCLA- SARA Title III: 40 CFR Part 302, Table 302.4**

7632-00-0	sodium nitrite	RQ 100 lbs	0.04%
108-05-4	vinyl acetate	5,000 lbs	0.0002%
140-88-5	ethyl acrylate	RQ: 1000lbs	0.00004%

· **State regulations**· **New Jersey Right-to-know**

	Proprietary surfactant blend ingredients	NJTSRN 5995500	0.451%
	defoamer- compositional trade secret	TSRN: 5995500	0.2%
7632-00-0	sodium nitrite	DOT: 1500, Sub No. 2258	0.04%
75-07-0	acetaldehyde	Group: II, Table: I Part A SubNo 0001	0.0002%
108-05-4	vinyl acetate	DOT 1301, Sub No.:1998, EHS	0.0002%
140-88-5	ethyl acrylate	DOT 1917, Sub No. 0843	0.00004%

· **Massachusetts Right-to-know / Hazardous Substance Codes**

13463-67-7	titanium dioxide	4	6.147%
7631-86-9	silicon dioxide, chemically prepared	2,4,5 F5	0.41%
546-93-0	Magnesite	4 F5	0.196%
1333-86-4	Carbon black	2,4 F5	0.06%
7632-00-0	sodium nitrite	F8	0.04%
75-07-0	acetaldehyde	1,2,3,4,5,6 *E*C* F8 F9	0.0002%

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108-05-4	vinyl acetate	4,5,6 *E* F6 F8 F9	0.0002%
140-88-5	ethyl acrylate	1,2,4,5,6 *E*C* F8 F9	0.00004%

· **Florida Hazardous / Toxic Substance Lists**

7631-86-9	silicon dioxide, chemically prepared	Toxic	0.41%
75-07-0	acetaldehyde	Toxic	0.0002%
108-05-4	vinyl acetate	Toxic	0.0002%
140-88-5	ethyl acrylate	Toxic	0.00004%

· **Pennsylvania Hazardous Substances**

13463-67-7	titanium dioxide	Listed	6.147%
57-55-6	propane-1,2-diol	--	1.08%
7631-86-9	silicon dioxide, chemically prepared	Listed	0.41%
7632-00-0	sodium nitrite	E	0.04%
75-07-0	acetaldehyde	E	0.0002%
108-05-4	vinyl acetate	E	0.0002%
140-88-5	ethyl acrylate	ES	0.00004%

· **Minnesota Right To Know / Hazardous Substances**

471-34-1	calcium carbonate	A	9.594%
13463-67-7	titanium dioxide	A	6.147%
57-55-6	propane-1,2-diol	l	1.08%
7631-86-9	silicon dioxide, chemically prepared	Codes ANOR, Carcinogen	0.41%
546-93-0	Magnesite	A	0.196%
1333-86-4	Carbon black	Codes: ANOR, Carcinogen	0.06%
75-07-0	acetaldehyde	AO Carcinogen	0.0002%
108-05-4	vinyl acetate	AN, Carcinogen	0.0002%
140-88-5	ethyl acrylate	AORT, skin, Carcinogen	0.00004%

· **New York Right To Know / Hazardous Substances**

7632-00-0	sodium nitrite	RQ Air: 100, RQ Land :100	0.04%
75-07-0	acetaldehyde	RQ air: 1000 , RQ land 1	0.0002%
108-05-4	vinyl acetate	RQ Air: 5000, RQ Land 1	0.0002%
140-88-5	ethyl acrylate	RQ Air:1000 lbs, RQ Land 1lb	0.00004%

· **Illinois Right To Know**

7632-00-0	sodium nitrite	S2, S5, S6, S7
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

titanium dioxide

· **Hazard statements**

Suspected of causing cancer.

· **Precautionary statements**

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

Obtain special instructions before use.

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **OSHA Process Safety Management: Appendix A to 29 CFR 1910.119**

75-07-0	acetaldehyde	2500 lbs	0.0002%
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· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

· **Relevant phrases**

H302 Harmful if swallowed.

· **Contact:** Compliance Department

· **Date of preparation / last revision** 06/18/2015 / -

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Carc. 2: Carcinogenicity, Hazard Category 2