

Material Safety Data Sheet

TRADES-MARKER® WS White

1. Product and company identification

Product name	: TRADES-MARKER® WS White
Material uses	: FOR INDUSTRIAL USE ONLY Cold Surface Marking Products. Marking and Identification.
Supplier/Manufacturer	: LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746
In case of emergency	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

This MSDS reflects the health, physical and environmental hazards of the paint released by this product. Because of the nature of the finished product i.e. the fact that the paint is in solid form, and given that the paint is released in very small amounts during normal use, the user of the product and/or the reader of this MSDS should consider the potential exposure to the paint to be minimal and controlled during the normal use of the product. Refer to relevant sections of the MSDS (7 and 13) for additional information on handling and disposal considerations.

To avoid any potential hazard and to minimize the risk of exposure, it is important that the user of the product does NOT heat, burn or expose it to a source of intense heat unless the product is specifically intended for use on hot surfaces.

Emergency overview

Physical state	: Solid.
Color	: White.
Hazard statements	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Precautionary measures	: No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
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.
Target organs	: Contains material which may cause damage to the following organs: lungs, cardiovascular system, upper respiratory tract, skin, eyes.

Over-exposure signs/symptoms

No specific data.

TRADES-MARKER® WS White

2. Hazards identification

Ingestion	: No specific data.
Skin	: No specific data.
Eyes	: No specific data.
Medical conditions aggravated by over-exposure	: None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Talc	14807-96-6	10 - 30
Titanium oxide	13463-67-7	10 - 30
Silica	7631-86-9	1 - 5
Aluminum hydroxide	21645-51-2	1 - 5
Quartz	14808-60-7	0.1 - 1

Canada

Name	CAS number	%
Talc	14807-96-6	10 - 30
Titanium oxide	13463-67-7	10 - 30
Silica	7631-86-9	1 - 5
Aluminum hydroxide	21645-51-2	1 - 5
Quartz	14808-60-7	0.1 - 1

Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Titanium oxide	13463-67-7	Not regulated.	10 - 30	5000 mg/m ³	2	0	0	-
Talc	14807-96-6	Not regulated.	10 - 30	1000 mg/m ³	2	0	0	-
Silica	7631-86-9	Not regulated.	1 - 5	3000 mg/m ³	1	0	0	-
Silica, amorphous, fumed, cryst.-free	112945-52-5	Not regulated.	1 - 5	-	0	0	0	-
Aluminum hydroxide	21645-51-2	Not regulated.	1 - 5	-	0	0	0	-

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 or the environment and hence require reporting in this section.

4. First aid measures

Eye contact	: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
Inhalation	: Move exposed person to fresh air. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Notes to physician	: No specific treatment. Treat symptomatically.

TRADES-MARKER® WS White

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Hazardous decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters : No special protection is required.

6. Accidental release measures

Personal precautions : Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). 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. Do not get in eyes or on skin or clothing. Do not ingest. Empty containers retain product residue and can be hazardous.

Storage : 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. 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.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Talc	NIOSH REL (United States, 6/2009). TWA: 2 mg/m ³ 10 hour(s). Form: Respirable fraction ACGIH TLV (United States, 2/2010). TWA: 0.1 f/cc 8 hour(s). OSHA PEL Z3 (United States, 9/2005). STEL: 1 f/cc 30 minute(s). Form: not containing asbestos TWA: 20 mppcf 8 hour(s). Form: not containing asbestos TWA: 0.1 f/cc 8 hour(s). STEL: 1 f/cc 30 minute(s).
Titanium oxide	OSHA PEL (United States, 6/2010). TWA: 15 mg/m ³ 8 hour(s). Form: Total dust ACGIH TLV (United States, 2/2010). TWA: 10 mg/m ³ 8 hour(s).
Silica	NIOSH REL (United States, 6/2009). TWA: 6 mg/m ³ 10 hour(s).
Aluminum hydroxide	NIOSH REL (United States, 6/2009). TWA: 2 mg/m ³ , (Al) 10 hour(s).
Quartz	OSHA PEL Z3 (United States, 9/2005).

TRADES-MARKER® WS White

8. Exposure controls/personal protection

TWA: 10 mg/m³ 8 hour(s). Form: Respirable
TWA: 250 mppcf 8 hour(s). Form: Respirable
TWA: 30 mg/m³ 8 hour(s). Form: Total dust
NIOSH REL (United States, 6/2009).
TWA: 0.05 mg/m³ 10 hour(s). Form: Respirable dust
ACGIH TLV (United States, 2/2010).
TWA: 0.025 mg/m³ 8 hour(s). Form: Respirable fraction

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	
Titanium oxide	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	[3] [a] [b] [b] [b]
	AB 4/2009	-	10	-	-	-	-	-	-	-	
	BC 9/2010	-	3	-	-	-	-	-	-	-	
	ON 7/2010	-	10	-	-	-	-	-	-	-	
	QC 6/2008	-	10	-	-	-	-	-	-	-	
Talc	US ACGIH 2/2010	-	-	0.1 f/cc	-	-	-	-	-	-	[c] [d] [a] [3] [d] [e] [c] [d] [a]
	BC 9/2010	-	2	-	-	-	-	-	-	-	
	ON 7/2010	-	-	0.1 f/cc	-	-	-	-	-	-	
	QC 6/2008	-	2	-	-	-	-	-	-	-	
	AB 4/2009	-	3	-	-	-	-	-	-	-	
Aluminum hydroxide, Al	QC 6/2008	-	2	-	-	-	-	-	-	-	[d] [e] [c] [d] [a]
	AB 4/2009	-	2	-	-	-	-	-	-	-	
Quartz	QC 6/2008	-	2	-	-	-	-	-	-	-	[d] [e] [c] [d] [a]
	US ACGIH 2/2010	-	0.025	-	-	-	-	-	-	-	
	AB 4/2009	-	0.025	-	-	-	-	-	-	-	
	BC 9/2010	-	0.025	-	-	-	-	-	-	-	
	ON 7/2010	-	0.1	-	-	-	-	-	-	-	
	QC 6/2008	-	0.1	-	-	-	-	-	-	-	

[3]Skin sensitization

Form: [a]Respirable dust [b]Total dust [c]Respirable. [d]Respirable fraction [e]Respirable particulate.

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Talc	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 2 mg/m³ 8 hour(s).
Titanium oxide	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 20 mg/m³, (as Ti) 15 minute(s). LMPE-PPT: 10 mg/m³, (as Ti) 8 hour(s).
Silica, amorphous, fumed, cryst.-free	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 3 mg/m³ 8 hour(s). Form: breathable particulates LMPE-PPT: 10 mg/m³ 8 hour(s). Form: inhalable particulates
Silica	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 3 mg/m³ 8 hour(s). Form: breathable particulates LMPE-PPT: 10 mg/m³ 8 hour(s). Form: inhalable particulates
Aluminum hydroxide	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 2 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures : No special ventilation requirements.

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.

Personal protection

Respiratory : Not required for normal use of the pen/marker.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

TRADES-MARKER® WS White

8. Exposure controls/personal protection

- Hands** : Not required for normal use of the pen/marker.
Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).
- Eyes** : Not required for normal use of the pen/marker.
Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : Not required for normal use of the pen/marker.
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

- Physical state** : Solid.
- Color** : White.

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials and acids.
- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

- Acute toxicity** : No specific data.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium oxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Talc	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Silica	Eyes - Mild irritant	Rabbit	-	24 hours 25 milligrams	-

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Talc	A4	1	-	None.	-	-
Titanium oxide	A4	2B	-	None.	-	-
Silica	-	3	-	-	-	-
Quartz	A2	2A	-	+	Proven.	-

- IDLH** : Not available.

- Synergistic products** : Not available.

TRADES-MARKER® WS White

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Titanium oxide	Acute EC50 5.83 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours
	Acute LC50 >1000000 ug/L Marine water	Fish - Fundulus heteroclitus	96 hours
	Chronic NOEC 1 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - <24 hours	48 hours

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

International transport regulations

DOT/TDG/MXT/IMDG/IATA : Not regulated.

15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : **TSCA 8(a) IUR Exempt/Partial exemption:** Not determined
United States inventory (TSCA 8b): Not determined.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Talc; Titanium oxide; Aluminum hydroxide

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Talc: Immediate (acute) health hazard; Titanium oxide: Delayed (chronic) health hazard; Aluminum hydroxide: Immediate (acute) health hazard

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

15. Regulatory information

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

State regulations

Massachusetts : The following components are listed: Titanium oxide; Silica; Talc
New York : None of the components are listed.
New Jersey : The following components are listed: Titanium oxide; Talc; Quartz
Pennsylvania : The following components are listed: Titanium oxide; Silica; Aluminum hydroxide; Talc; Quartz

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz (*)	Yes.	No.	No.	No.

(*) These ingredients are not expected to be present as unbound, respirable particles during normal use of this product.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI : None of the components are listed.

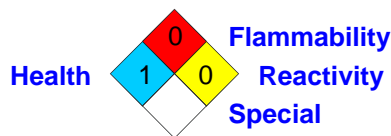
CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :



International regulations

International lists :

- Australia inventory (AICS):** Not determined.
- China inventory (IECSC):** All components are listed or exempted.
- Japan inventory:** Not determined.
- Korea inventory:** All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
- Philippines inventory (PICCS):** All components are listed or exempted.

16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.) : **Health** : 1 **Flammability** : 0 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 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 MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® 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.

16. Other information

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) : **Health** : 1 **Flammability** : 0 **Instability** : 0

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue mm/dd/yyyy : 15/08/2011

Version : 1

Notice to reader

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.