



SURFACE VEHICLE RECOMMENDED PRACTICE

J3024™

DEC2024

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Product Safety Signs for Ready Mixed Concrete Trucks

RATIONALE

Common safety signs recommended by this standard will improve safety by establishing common signs to be used by all manufacturers of ready mixed concrete trucks. Common signs will benefit operators by establishing recognizable reminders of hazards that will be the same no matter who manufactures the product.

SAE J3024 has been reaffirmed to comply with the SAE Five-Year Review policy.

FOREWORD

This document presents safety signs for use on ready mixed concrete trucks.

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1. SCOPE

This document presents a catalog of safety sign text and artwork that can be used by any ready mixed concrete truck manufacturer to warn of common hazards.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein.

2.1.1 SAE Publication

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J2967 Ready Mixed Concrete Truck Recommended Practice

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For more information on this standard, visit
https://www.sae.org/standards/content/J3024_202412/

2.1.2 ISO Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 9244 Earth-moving machinery – Machine safety labels – General Principles

ISO 7010 Graphical symbols – Safety colours and safety signs – Registered safety signs

2.1.3 Other Publications

ANSI Z535.4 American National Standard for Product Safety Signs and labels

ANSI Z535.6 American National Standard for Product Safety Information in Product Manuals, instructions, and Other Collateral Materials

3. DEFINITIONS

3.1 Product Safety Sign

Sign, label, or decal affixed to a product that provides safety information concerning the hazard, the degree or level of hazard seriousness, the probable consequence of involvement with the hazard, and how the hazard can be avoided.

4. GENERAL

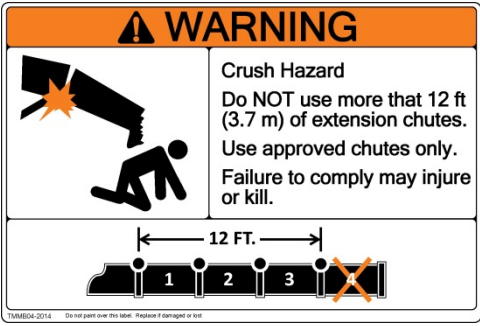
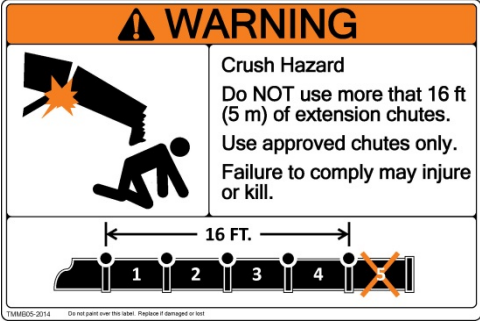
- 4.1 The product safety signs shown in this document are designed for sufficiency of text and graphic size with respect to each hazard.
- 4.2 Limitations inherent in some reproduction and display technologies may require increased line thickness or other minor modifications of symbols. Such modifications are acceptable provided the symbol is unchanged in its basic graphical elements and remains easily discernible by the operator.
- 4.3 To improve the appearance and perceptibility of a safety sign, or to coordinate with the design of the equipment to which the sign is applied, it may be necessary to change the line thickness or round the corners of a symbol. The graphic designer is free to make such changes, provided that the essential perceptual characteristics of the symbol are maintained.
- 4.4 Some of the product safety signs included in this document are provided with “textless” two-panel versions developed using the guidelines found in ISO 7010. These versions may be used in place of the ANSI Z535.4 signs at the option of the manufacturer.
- 4.5 Symbols on controls and displays shall have good contrast to their background. Pictorials may use either a light symbol on a dark background or a dark symbol on a light background at the manufacturer's discretion. When a pictorial image is reversed (for example, from black-on-white to white-on-black and vice versa), it shall be done for the entire pictorial.
- 4.6 Product safety signs should be located as close as practical to the recommended locations.
- 4.7 Reference numbers are provided as a convenience to the organization of this document and need not appear on the final product.
- 4.8 All standard ISO version signs are 6.65 in. tall by 3.35 in. wide.
- 4.9 Font sizes are based on using Microsoft Sans Serif.
- 4.10 All required signs, instruction plates, and labels shall be permanent in nature and securely attached.

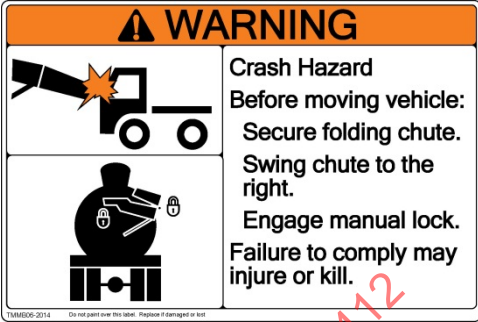
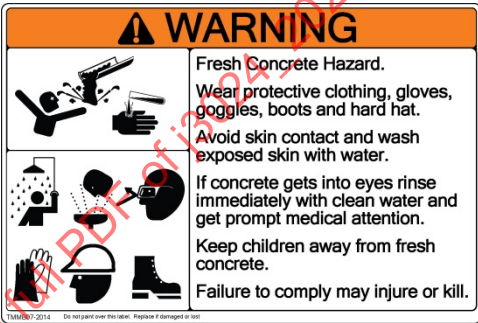
- 4.11 The signs shall have resistance to damage from UV radiation, temperatures between –30°F and 176°F (–35°C and 80°C) and exposure to cleaning fluids, oil, fuel, water, hydraulic fluids, or other fluids used on the vehicle.
- 4.12 Text for required signs, instruction plates, and labels shall be provided in the primary language of the country of original destination. For equipment originally destined for service in the United States, this language would be English. Given the fact that there are nearly 7000 known languages in the world, it is impractical to provide information in every potential user's primary language. If employers hire operators with limited knowledge of the countries primary language, a training program should account for this.
- 4.13 Colors shall conform to the following specification chart

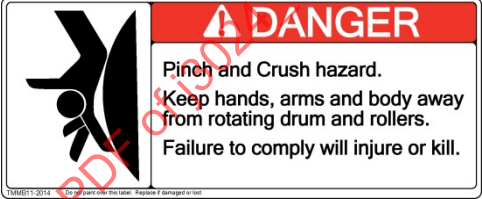
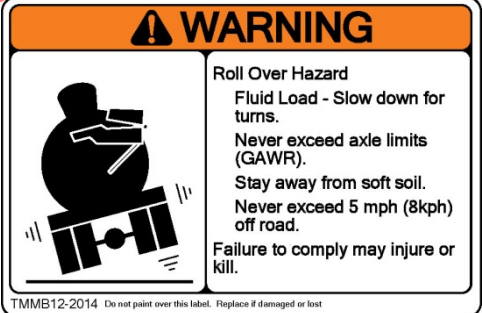
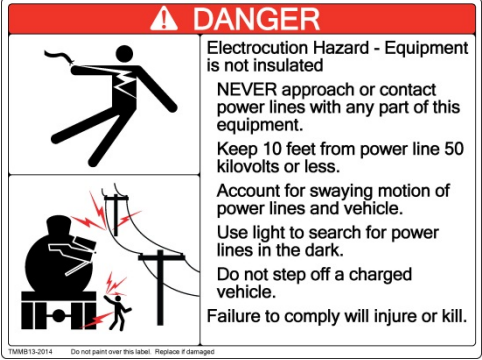
Color	Pantone©	Process Color				sRGB			HTML Code
		C	M	Y	K	R	G	B	
Blue	2945C	100	52	2	12	0	84	159	00549F
Green	3415C	100	5	72	24	0	122	77	007A4D
Orange	152C	0	62	100	0	225	112	0	E17000
Red	485C	0	93	95	0	213	43	30	D52B1E
White		0	0	0	0	255	255	255	FFFFFF
Yellow	109C	0	10	100	0	254	209	0	FED100

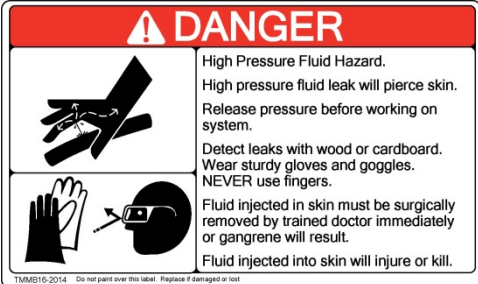
5. SAFETY SIGN TEXT AND ARTWORK

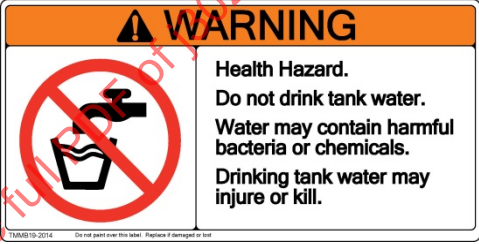
Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB01	Chute Pinch and Crush	One on each side of main chute.	4.0 x 6.0	18		 TMMB01GA  TMMB01GB

Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB02	Chute Extensions Secured	Visible to operator storing extension chutes in chute storage area.	3.0 x 6.0	16		 TMMB02G
TMMB03	Chute Extension Limit 8 Feet	On both sides of main chute, or visible to operator at extension chute storage area.	4.0 x 6.0	18		 TMMB03G
TMMB04	Chute Extension Limit 12 Feet	On both sides of main chute, or visible to operator at extension chute storage area.	4.0 x 6.0	18		 TMMB04G
TMMB05	Chute Extension Limit 16 Feet	On both sides of main chute, or visible to operator at extension chute storage area.	4.0 x 6.0	18		 TMMB05G

Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB06	Chute Rotation Lock	Visible to operator near main chute.	4.0 x 6.0	21	 WARNING Crash Hazard Before moving vehicle: Secure folding chute. Swing chute to the right. Engage manual lock. Failure to comply may injure or kill.	 TMMB06G
TMMB07	Concrete burns	Visible to personnel on side of vehicle where extension chutes are stored.	4.0 x 6.0	16	 WARNING Fresh Concrete Hazard. Wear protective clothing, gloves, goggles, boots and hard hat. Avoid skin contact and wash exposed skin with water. If concrete gets into eyes rinse immediately with clean water and get prompt medical attention. Keep children away from fresh concrete. Failure to comply may injure or kill.	 TMMB07G
TMMB08	Confined Space	Visible to personnel at any drum access location. Oriented to be seen upright from either side of drum.	4.0 x 6.0	11	 WARNING Entanglement Hazard. Never enter drum if there is a possibility that the drum will turn. Never enter drum without supervision. Before entering drum: 1) Follow OSHA confined space regulation 1910.146 and Lockout/Tagout 1910.147. 2) Shut off engine. 3) Remove keys. 4) Apply warning signs to steering wheel and over ignition switch. 5) Lock drum from moving using methods found in operator's manual. Failure to comply may injure or kill.	 TMMB08G
TMMB09	Drum Rotation - General	Visible near rotating drum or other rotation hazard not identified by other specific signs.	2.5 x 6.0	14	 DANGER Rotating Parts Hazard. Never place tools, hoses, hands, arms or any part of the body or clothing in the vicinity of fins, rollers, drum or any other part of the mixer while it is in motion. A slip or snagging of tools, clothing, or yourself will injure or kill.	 TMMB09G

Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB10	Drum Rotation - At Hopper	Visible to operator entering washout platform.	2.5 x 6.0	14	 ⚠ DANGER Entanglement Hazard. Keep hands, body parts, clothes, tools, and wash hose away from rotating drum, fins and other rotating parts. Do not lean over railings. Failure to comply will injure or kill.	 TMMB10G
TMMB11	Drum Roller Pinch	Visible to operator near drum rollers	2.5 x 6.0	18	 ⚠ DANGER Pinch and Crush hazard. Keep hands, arms and body away from rotating drum and rollers. Failure to comply will injure or kill.	 TMMB11G
TMMB12	Vehicle Rollover	Visible to driver	2.0 x 3.0	8	 ⚠ WARNING Roll Over Hazard Fluid Load - Slow down for turns. Never exceed axle limits (GAWR). Stay away from soft soil. Never exceed 5 mph (8kph) off road. Failure to comply may injure or kill.	 TMMB12G
TMMB13	Power Line Electrocutation	Visible to personnel approaching vehicle from either side.	6.0 x 8.0	21	 ⚠ DANGER Electrocution Hazard - Equipment is not insulated NEVER approach or contact power lines with any part of this equipment. Keep 10 feet from power line 50 kilovolts or less. Account for swaying motion of power lines and vehicle. Use light to search for power lines in the dark. Do not step off a charged vehicle. Failure to comply will injure or kill.	 TMMB13G

Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB14	Falling Chutes or Material	On foldover chute, right side up when chute is in position to discharge material.	3.0 x 6.0	14		 TMMB14G
TMMB15	Hot Surface	Visible to personnel approaching a hot surface	2.5 x 5.0	21		 TMMB15G
TMMB16	Hydraulic High Pressure Leaks	One sign per vehicle located near the majority of hydraulic components.	3.0 x 5.0	11		 TMMB16G
TMMB17	Access Methods	Visible to personnel preparing to climb onto or enter vehicle.	3.0 x 5.0	12		 TMMB17G

Ref Number	Hazard	Location	Size (in.)	Font Size	ANSI Version	ISO Version
TMMB18	Ladder Latched	Visible to personnel preparing to climb ladders with folding sections.	2.3 x 4.5	14		 TMMB18G
TMMB19	Non-potable water	Visible to personnel near water sources.	3.0 x 6.0	18		 TMMB19G
TMMB20	Pressurized Tank	On pressurized tank.	4.0 x 6.0	18		 TMMB20G
TMMB21	Pressurized Tank Regulator	On pressurized tank if equipped with regulator.	3.0 x 6.0	14		 TMMG21G