



SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

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Product Safety: 1 (800) 507-8899
www.usg.com
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PRODUCT(S) USG Drywall Suspension System

CHEMICAL FAMILY / GENERAL CATEGORY Steel

SYNONYMS Ceiling Tile Grid

SECTION 2
HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION!

This product is not expected to produce any unusual hazards during normal use. Direct contact may irritate the skin, or eyes. Edges may be sharp and can cut skin. Unload from package with caution and handle carefully.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Due to the physical nature of this product, inhalation is unlikely. There are no known health effects due to inhalation. Welding, burning, grinding or machining can generate metal particulate or elemental oxide fumes. Inhalation overexposure to manganese fume has been reported to cause "metal fume fever" characterized by fever and chills (i.e., flu-like symptoms). Such an overexposure is unlikely due to the small amount of manganese available. Fumes or mists of surface treatment oils may irritate the eyes and upper respiratory tract, and cause headache, dizziness and / or nausea if exposure is excessive.
Eyes	Direct contact can cause irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
Skin	Edges may be sharp and can cut skin. Unload from package with caution and handle carefully.
Ingestion	None known.

CHRONIC:

Inhalation	Repeated and prolonged exposure to iron oxide fume may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product. None known.
Eyes	None known.
Skin	None known.
Ingestion	None known. This product is not intended to be eaten. Wash hands before eating.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.



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CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Tin	Not Listed	Not Listed	A4 (Organic)	Not Listed
Certain Nickel Compounds	1	1	A1	Listed
Chromium (hexavalent compounds)	1	1	A1	Listed
Certain Lead Compounds	2A	2	A3	Not Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

IARC lists certain hexavalent chromium compounds under its Group 1 - "Confirmed Human Carcinogen". IARC lists certain nickel compounds under its Group 2A - "Suspected Human Carcinogen". IARC lists certain lead compounds under its Group 2A - "Suspected Human Carcinogen". Welding fume may also contain contaminants from fluxes and / or other welding consumables.

POTENTIAL ENVIRONMENTAL EFFECTS: This product has no known adverse effect on ecology. (See Section 12 for more information.)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Iron	>90	7439-89-6
Manganese	<10	7439-96-5
Zinc	<10	7440-66-6
Aluminum	<10	7429-90-5
Tin	<2	7440-31-5
Phosphorus	<2	7723-14-0
Sulfur	<2	7704-34-9
Nickel	<1	7440-02-0
Chromium	<1	7440-47-3
Copper	<1	7440-50-8
Lead	<1	7439-92-1
Silicon	<1	7440-21-3

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

SECTION 4 FIRST AID MEASURES



FIRST AID PROCEDURES

Inhalation	In the unlikely event of over exposure to metals fumes if welding, remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin	Wash with mild soap and water. If irritation persists, consult physician.
Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5
FIRE FIGHTING MEASURES

General Fire Hazards	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	None known		
Flash Point	Not Applicable	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Applicable		
Lower Flammable Limit (LFL)	Not Applicable	Rate of Burning	Not Applicable

SECTION 6
ACCIDENTAL RELEASE MEASURES

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

SECTION 7
HANDLING AND STORAGE



HANDLING: Avoid contact with eyes. Wear the appropriate eye protection (See Section 8). Use good safety and industrial hygiene practices.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10).

**SECTION 8
 EXPOSURE CONTROLS/PERSONAL PROTECTION**

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Iron	>90	5 (F)	10 (F)
Manganese	<10	5 (Du) / 1 (F)	5 (C) / 1 (F)
Zinc	<10	5 (F) / 10 (Du)	5 (F)
Aluminum	<10	10	15 (T) / 5 (R)
Tin	<2	2	2
Phosphorus	<2	0.02 ppm	0.1
Sulfur	<2	5 (as SO ₂)	13 (as SO ₂)
Nickel	<1	1 (as Ni)	1 (as Ni)
Chromium	<1	0.5 (as Cr)	1.0 (as Cr)
Copper	<1	0.2 (F)	0.1 (as Cu)
Lead	<1	0.15 (Du/F)	0.05
Silicon	<1	10	15 (T) / 5 (R)

(T)–Total; (R)–Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit
 (F)-Fume; (Du)-Dust; (M)-Mist
 ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

ENGINEERING CONTROLS: If user operations generate exposures, use ventilation to keep exposure concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure levels below permissible exposure limits.

RESPIRATORY PROTECTION: A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
Skin	Wear gloves and protective clothing to prevent cuts, edges may be sharp and can cut skin.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

**SECTION 9
 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Formed metal	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H₂O = 1)	7.0-8.5



Odor Threshold	Not Determined	Solubility in water (g/100g)	Insoluble
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 ° C	Not Applicable	Auto-ignition Temp	Not Applicable
Melting Point	Base Metal: 2750 °F	Decomposition Temp	Not Applicable
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Not Applicable
Flash Point	Not Applicable	Bulk Density	7.0-8.5
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	Not Applicable
Upper Flammable Limit (UFL)	Not Applicable	VOC Content	Zero g/L
Lower Flammable Limit (LFL)	Not Applicable	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

**SECTION 10
 CHEMICAL STABILITY AND REACTIVITY**

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	Contact with strong mineral acids will release flammable hydrogen gas.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	None known.

**SECTION 11
 TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: Welding, burning, grinding or machining can generate metal particulate or elemental oxide fumes. Inhalation overexposure to manganese fume has been reported to cause "metal fume fever" characterized by fever and chills (i.e., flu-like symptoms). Such an overexposure is unlikely due to the small amount of manganese available. Fumes or mists of surface treatment oils may irritate the eyes and upper respiratory tract, and cause headache, dizziness and / or nausea if exposure is excessive.

CHRONIC EFFECTS / CARCINOGENICITY: Repeated and prolonged exposure to iron oxide fume may cause a benign pneumoconiosis called siderosis. The ACGIH recommended limit is set to protect against siderosis, any exposure is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

**SECTION 12
 ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology.



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Ecotoxicity value	Not determined.
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SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

SECTION 15 REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Iron	>90	NL	NL	NL	NL	NL	NL
Manganese	<10	NL	NL	X	NL	NL	NL
Zinc	<10	NL	NL	X	1,000	NL	NL
Aluminum	<10	NL	NL	X	NL	NL	NL
Tin	<2	NL	NL	NL	NL	NL	NL
Phosphorus	<2	100	1	X	1	NL	NL
Sulfur	<2	NL	NL	NL	NL	NL	NL
Nickel	<1	NL	NL	X	100	NL	NL



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Chromium	<1	NL	NL	X	5,000NL	NL
Copper	<1	NL	NL	X	5,000NL	NL
Lead	<1	NL	NL	X	10	NL
Silicon	<1	NL	NL	NL	NL	NL

Metals. For metals listed under CERCLA no reporting of releases of the solid form is required if the mean diameter of the pieces of the solid metal released is greater than 100 micrometers (0.004 inches). The RQs shown on the consolidated list apply to smaller particles.

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
Iron	>90	Not Listed	Not Listed
Manganese	<10	974	Not Listed
Zinc	<10	Not Listed	Not Listed
Aluminum	<10	47	Not Listed
Tin	<2	1570	Not Listed
Phosphorus	<2	1295	B4, D1A, E
Sulfur	<2	Not Listed	B4
Nickel	<1	1126	D2A
Chromium	<1	399	Not Listed
Copper	<1	433	Not Listed
Lead	<1	937	Not Listed
Silicon	<1	Not Listed	Not Listed

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): None known.

S-Phrase(s): None known.

SECTION 16 OTHER INFORMATION



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Label Information**Δ CAUTION!**

Edges may be sharp and can cut skin. Unload from package with caution and handle carefully. Product safety information: 800-507-8899 or usg.com. Customer Service: 800 USG-4-YOU (800 874-4968). **KEEP OUT OF REACH OF CHILDREN.**

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:			HMIS Ratings:		HEALTH <input type="text" value="0"/>	0 = Minimal Hazard
Health:	0		Health:	0	FLAMMABILITY <input type="text" value="0"/>	1 = Slight Hazard
Fire:	0		Fire:	0	PHYSICAL HAZARD <input type="text" value="0"/>	2 = Moderate Hazard
Reactivity:	0		Reactivity:	0	PERSONAL PROTECTION <input type="text" value="B"/>	3 = Serious Hazard
						4 = Severe Hazard

B - Safety glasses and gloves

Key/Legend

ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System



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