# USG

# SAFETY DATA SHEET

# 1. Identification

Product identifier USG® Glacier™ Basic Acoustical Ceiling Panels

Other means of identification

**SDS number** 41281160001

Additional Products: Arctic, Cheyenne™, Frost™ Basic, Frost™, Frost™ High LR, Frost™ Basic Foil-Back, "F"

Fissured™ Basic, Frost™ High NRC/High CAC, Sandrift™, Renditions

Synonyms Cast Mineral Fiber Ceiling Panels/Tiles

**Recommended use** Interior use. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer United States Gypsum Company

Address 550 West Adams Street

Chicago, Illinois 60661-3637

 Telephone
 1-800-874-4968

 Website
 www.usg.com

 Emergency phone number
 1-800-507-8899

Supplier CGC Inc.

Address 350 Burnhamthorpe Road West, 5th Floor

Mississauga, Ontario L5B 3J1 A Subsidiary of USG Corporation

Telephone 1-800-387-2690
Website www.cgcinc.com
Emergency phone number 1-800-507-8899

## 2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

**Storage** Store as indicated in Section 7.

**Disposal** Dispose of in accordance with local, state, and federal regulations.

Other hazards None known.

Supplemental information Not applicable.

# 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and	CAS number	%
	synonyms		
Slag wool fiber		N/A	> 65
Calcium sulfate hemihydrate		26499-65-0	< 15

USG® Glacier™ Basic Acoustical Ceiling Panels

SDS Canada

Limestone	1317-65-3	< 5
Kaolin	1332-58-7	< 2
Titanium dioxide	13463-67-7	< 0.25

#### **Composition comments**

All concentrations are in percent by weight.

Raw materials and/or coatings in this product contain small amounts of titanium dioxide, which has been classified as possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC). However, per IARC "no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints" (1). See Section 16 for further information.

## 4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move

injured person into fresh air and keep person calm under observation. Get medical attention if

Under normal conditions of intended use, this material does not pose a risk to health. Dust may

symptoms persist.

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or Skin contact

persists.

Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical Eye contact

irritate throat and respiratory system and cause coughing.

Provide general supportive measures and treat symptomatically.

assistance.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

**General information** 

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Use fire-extinguishing media appropriate for surrounding materials. Not applicable.

Ensure that medical personnel are aware of the material(s) involved.

Not a fire hazard.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

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

Cool material exposed to heat with water spray and remove it if no risk is involved. No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.

**Environmental precautions** Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling

Use work methods which minimise dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials.

917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019

# 8. Exposure controls/personal protection

# Occupational exposure limits

Components	Туре	Value	Form
Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA	10 mg/m3	Inhalable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Slag wool fiber	TWA	1 fibers/cm3	Fiber, respirable (length > 5 µm and aspect ratio ≥ 3:1)
Canada. Alberta OELs (Occupational Components	Health & Safety Code, Sch Type	nedule 1, Table 2) Value	Form
Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA	10 mg/m3	
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	
Slag wool fiber	TWA	0.2 fibers/cm3	Fiber.
		5 mg/m3	Total particulate.
		5 mg/m3	Fiber, total
Canada. British Columbia OELs. (Oc	cupational Exposure Limits	s for Chemical Substances, Oc	cupational Health and
Safety Regulation 296/97, as amende	d)		
Components	Туре	Value	Form
Calcium sulfate hemihydrate (CAS 26499-65-0)	STEL	20 mg/m3	Total dust.
	TWA	10 mg/m3	Inhalable
	IVVA	ro mg/ms	IIIIalable
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable.
Kaolin (CAS 1332-58-7) Limestone (CAS 1317-65-3)		•	
	TWA	2 mg/m3	Respirable.
	TWA STEL	2 mg/m3 20 mg/m3	Respirable. Total dust.
	TWA STEL	2 mg/m3 20 mg/m3 3 mg/m3	Respirable. Total dust. Respirable fraction.
Limestone (CAS 1317-65-3)	TWA STEL TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3	Respirable. Total dust. Respirable fraction. Total dust.
Limestone (CAS 1317-65-3) Slag wool fiber	TWA STEL TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3	Respirable. Total dust. Respirable fraction. Total dust. Fiber.
Limestone (CAS 1317-65-3)	TWA STEL TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3	Respirable. Total dust. Respirable fraction. Total dust. Fiber.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20)  Components  Calcium sulfate hemihydrate (CAS	TWA STEL TWA TWA  TWA  Oo, The Workplace Safety	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act)	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20)  Components  Calcium sulfate	TWA STEL TWA TWA  TWA  106, The Workplace Safety	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20 Components  Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA STEL TWA TWA  106, The Workplace Safety Type TWA  TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value 10 mg/m3	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.  Form Inhalable fraction.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20)  Components  Calcium sulfate hemihydrate (CAS 26499-65-0)  Kaolin (CAS 1332-58-7)	TWA STEL TWA TWA  106, The Workplace Safety Type TWA  TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value 10 mg/m3	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.  Form Inhalable fraction.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20 Components  Calcium sulfate hemihydrate (CAS 26499-65-0)  Kaolin (CAS 1332-58-7)  Canada. Ontario OELs. (Control of E.)	TWA STEL TWA  TWA  106, The Workplace Safety Type TWA  TWA  TWA  TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value 10 mg/m3 2 mg/m3 nemical Agents)	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.  Form Inhalable fraction.  Respirable fraction.
Limestone (CAS 1317-65-3)  Slag wool fiber  Canada. Manitoba OELs (Reg. 217/20 Components  Calcium sulfate hemihydrate (CAS 26499-65-0)  Kaolin (CAS 1332-58-7)  Canada. Ontario OELs. (Control of E Components  Calcium sulfate hemihydrate (CAS	TWA STEL TWA TWA  106, The Workplace Safety Type TWA  TWA  TWA  TWA  TWA  TOTAL	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value 10 mg/m3 2 mg/m3 hemical Agents) Value	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.  Form Inhalable fraction.  Respirable fraction.
Canada. Manitoba OELs (Reg. 217/20 Components  Calcium sulfate hemihydrate (CAS 26499-65-0)  Kaolin (CAS 1332-58-7)  Canada. Ontario OELs. (Control of E. Components  Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA STEL TWA  TWA  106, The Workplace Safety Type TWA  TWA  TWA  TWA  TWA  TWA  TYPE TYPE TWA	2 mg/m3 20 mg/m3 3 mg/m3 10 mg/m3 0.2 fibers/cm3 5 mg/m3  And Health Act) Value 10 mg/m3  2 mg/m3  nemical Agents) Value 10 mg/m3	Respirable. Total dust. Respirable fraction. Total dust. Fiber. Inhalable fibers.  Form Inhalable fraction.  Respirable fraction.  Form Inhalable fraction.

USG® Glacier™ Basic Acoustical Ceiling Panels

917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019 3/8

Components	Туре	Value	Form	
Calcium sulfate hemihydrate (CAS 26499-65-0)	TWA	5 mg/m3	Respirable dust.	
		10 mg/m3	Total dust.	
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable dust.	
Limestone (CAS 1317-65-3)	TWA	10 mg/m3	Total dust.	
Slag wool fiber	TWA	1 fibers/cm3n	Fiber.	
		10 mg/m3	fibers, total dust	
Canada. Saskatchewan OEL Components	s (Occupational Health and Safety Rec Type	gulations, 1996, Table 21) Value	Form	
Calcium sulfate hemihydrate (CAS 26499-65-0)	15 minute	20 mg/m3		
	8 hour	10 mg/m3		
Kaolin (CAS 1332-58-7)	15 minute	4 mg/m3	Respirable fraction.	
	8 hour	2 mg/m3	Respirable fraction.	
Limestone (CAS 1317-65-3)	15 minute	20 mg/m3		
	8 hour	10 mg/m3		
Slag wool fiber	15 minute	10 mg/m3	Inhalable fraction.	
	8 hour	0.2 fibers/cc	Respirable fibers.	
		5 mg/m3	Inhalable fraction.	
logical limit values	No biological exposure limits noted for t	he ingredient(s).		
oropriate engineering atrols	Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimise the risk of exposure.			
	ut and trim with a utility knife or hand saw to minimize dust levels. If a router is used it must had dust collection system. Operations such as power cutting, power kerfing or using compressed remove dust are not recommended (2). See Section 16 for further information.			
	such as personal protective equipmen	t		
Eye/face protection	Wear approved safety goggles.			
Skin protection  Hand protection	It is a good industrial hygiene practice to minimise skin contact. For prolonged or repeated skin contact use suitable protective gloves.			
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.			
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.			
Thermal hazards	None.			
neral hygiene	Always observe good personal hygiene measures, such as washing after handling the material			

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment separately from regular wash. Observe any medical surveillance requirements.

# 9. Physical and chemical properties

**Appearance** 

considerations

Physical state Solid.
Form Panel or tile.
Colour Various colors.
Odour Low to no odour.
Odour threshold Not applicable.

**pH** 9

Melting point/freezing point 1204.44 °C (2200 °F) (Slag wool)

SDS Canada

917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019

Initial boiling point and boiling Not applicable.

range

Flash point Not applicable. **Evaporation rate** Not applicable. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

Explosive limit - lower (%) Not applicable. Explosive limit - upper Not applicable.

(%)

Not applicable. Vapour pressure Vapour density Not applicable. Relative density 0.39 - 0.49 (H2O=1)

Solubility(ies)

Solubility (water) Very low solubility in water.

Partition coefficient (n-octanol/water)

Not applicable.

**Auto-ignition temperature** Not applicable. **Decomposition temperature** Not applicable. **Viscosity** Not applicable.

Other information

24 - 30 lb/ft<sup>3</sup> **Bulk density** Not explosive. **Explosive properties** Oxidising properties Not oxidising.

VOC 0 % (See section 16 for further detail)

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Incompatible materials Acids. Strong oxidising agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Inhalation of dusts may cause respiratory irritation. Skin contact May cause irritation through mechanical abrasion.

**Eve contact** Direct contact with airborne particulates may cause temporary irritation.

Ingestion Ingestion may cause irritation and stomach discomfort.

Symptoms related to the physical, chemical and toxicological characteristics Under normal conditions of intended use, this material does not pose a risk to health.

#### Information on toxicological effects

Not expected to be a hazard under normal conditions of intended use. Acute toxicity

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

USG® Glacier™ Basic Acoustical Ceiling Panels 917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019 Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Slag wool fiber (CAS N/A) Irritant Respiratory sensitisation No data available, but none expected.

This product is not expected to cause skin sensitisation. Skin sensitisation

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not expected to cause cancer.

**ACGIH Carcinogens** 

Kaolin (CAS 1332-58-7) A4 Not classifiable as a human carcinogen.

Canada - Alberta OELs: Carcinogen category

Slag wool fiber (CAS N/A) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Kaolin (CAS 1332-58-7) Not classifiable as a human carcinogen.

Canada - Quebec OELs: Carcinogen category

Slag wool fiber (CAS N/A) Detected carcinogenic effect in animals.

Reproductive toxicity No data available.

Specific target organ toxicity -

single exposure

No data available, but none expected.

Specific target organ toxicity -

repeated exposure

No data available, but none expected.

Due to the physical form of the product it is not an aspiration hazard. **Aspiration hazard** 

12. Ecological information

The product components are not classified as environmentally hazardous. However, this does not **Ecotoxicity** 

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Components **Species Test Results** 

Calcium sulfate hemihydrate (CAS 26499-65-0)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

Titanium dioxide (CAS 13463-67-7)

Aquatic

Acute

Crustacea FC50 Daphnia magna > 100 mg/l, 48 Hours LL50 Fish Oryzias latipes > 100 mg/l, 96 Hours

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

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soil No data available. None expected. Other adverse effects

13. Disposal considerations

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly. **Disposal instructions** 

Dispose of in accordance with local regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

**TDG** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

USG® Glacier™ Basic Acoustical Ceiling Panels SDS Canada 6/8 917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

# 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

## International regulations

**Stockholm Convention** 

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto Protocol**

Not applicable.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Calcium sulfate hemihydrate (CAS 26499-65-0)

### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

#### 16. Other information

**Issue date** 25-March-2019 **Revision date** 01-November-2019

Version No. 02

917469 Version #: 02 Revision date: 01-November-2019 Issue date: 25-March-2019

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Further information**

Slag Wool Fiber: Large morbidity and mortality studies of both European and North American mineral wool manufacturing workers have been conducted. These studies have found no significant association of non-malignant (i.e. fibrosis) or malignant (i.e., lung cancer or mesothelioma) lung disease and exposures to slag wool fibers and have not established a causal relationship between exposure and non-malignant or malignant diseases.

In 2001, the International Agency for Research on Cancer (IARC) assigned slag wool fiber to the Group 3 category ["not classifiable as to carcinogenicity to humans"].

The synthetic mineral fiber used in this product is exonerated from classification as a carcinogen in accordance with Note Q in the EU Commission Directive 97/69/EC.

Titanium dioxide: Raw materials and/or coatings in this product contain small amounts of titanium dioxide. The International Agency for Research on Cancer (IARC) has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. However, no significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. The available human studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer. The American Conference of Governmental Industrial Hygienists (ACGIH) has designated this chemical as not classifiable as a human carcinogen (A4). The US National Toxicology Program (NTP) has not listed this chemical in its report on carcinogens.

VOC Emissions: USG certifies the products listed in Section 1 of this SDS as Low-Emitting, defined as below the emissions of the concentration for each individual volatile organic chemical of concern (VOC) as specified in the Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Small-Scale Environmental Chambers Version 1.1 [CDPH/EHLB/Standard Method V1.1 (February 2010); aka, chamber testing portion of CA Section 01350] and ASTM Guide D5116-06.

NFPA Ratings: Health: 1 Flammability: 0 Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

- 1.) International Agency for Research on Cancer (IARC). Volume 93: Carbon Black, Titanium Dioxide, and Talc; (5. Summary of data reported). IARC, 2010. Available at: <a href="http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf">http://monographs.iarc.fr/ENG/Monographs/vol93/mono93.pdf</a>
- 2.) North American Insulation Manufacturer's Association (NAIMA). Working Smart with Fiber Glass, Rock Wool and Slag Wool Products. NAIMA, 2007. Available at: <a href="http://insulationinstitute.org/wp-content/uploads/2016/02/N059.pdf">http://insulationinstitute.org/wp-content/uploads/2016/02/N059.pdf</a> ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials) Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration)

Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits GOST 30333-2007 - Chemical production safety passport. General requirements JIS Z 7252:2009 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)

Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard

workers and the environment.

## References

**Disclaimer**