Safety Data Sheet

Chemical Substances and Company Information

Product name (Glass ty	pe) S-LAH58			
Name of manufacturer	Ohara Incorporated			
Address	15-30 Oyama,1-Chome, Chuo-ku, Sa	agamihara-shi, Kanagawa 252-5	286, Japan	
Issuing Department	Environmental Safety Section, Gene	eral Affairs Department	TEL:042-772-5118	FAX:042-774-1071
Executing Department	Material Production Control Section	, Optical Material Business Unit	TEL:042-772-5115	FAX:042-774-2314
Date of creation	Oct 27, 2014	Date of revision		

Hazards Identification

Optical glasses are physically and chemically stable and are not hazardous. However, the following danger hazardousness is concerned during processing of optical glasses.

Hazards

:

When dust inhales during dry processing and melting, may cause chronic or cumulative health impairment. And gas inhales during melting, may cause acute poisoning and chronic or cumulative health impairment including cancer.

Environmental : Pay attention to the concentrations of discharge density of gas during melting as they may damage the ecosystem.

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G	HS classification(1 - 115)	B ₂ O ₃	Sb ₂ O ₃	SiO ₂		
	Explosives	Not applicable	Not applicable	Not applicable		
	Flammable / Flammable gases	Not applicable	Not applicable	Not applicable		
	Flammable / Flammable aerosols	Not applicable	Not applicable	Not applicable		
	Combustion support / Oxidizing gases	Not applicable	Not applicable	Not applicable		
	Gases under pressure	Not applicable	Not applicable	Not applicable		
å	Flammable liquids	Not applicable	Not applicable	Not applicable		
zar	Flammable solids	Not classified	Not classified	Not classified		
ha	Self-reactive substances and mixtures	Not applicable	Not applicable	Not applicable		
Physical hazards	Pyrophoric liquids	Not applicable	Not applicable	Not applicable		
/sic	Pyrophoric solids	Not classified	Not classified	Not classified		
(hc	Self-heating substances and mixtures	Not classified	Not classified	Not classified		
-	Substances and mixtures which, in contact with water, emits flammable gases	Not classified	Not classified	Not classified		
	Oxidizing liquids	Not applicable	Not applicable	Not applicable		
	Oxidizing solids	Classification not possible	Classification not possible	Classification not possible		
	Organic peroxides	Not applicable	Not applicable	Not applicable		
	Corrosive to metals	Classification not possible	Classification not possible	Classification not possible		
	Acute toxicity(Oral)	Category 5	Category 5	Classification not possible		
	Acute toxicity(Skin)	Classification not possible	Classification not possible	Classification not possible		
	Acute toxicity(Inhalation: Gas)	Not applicable	Not applicable	Not applicable		
	Acute toxicity(Inhalation: Vapour)	Classification not possible	Classification not possible	Not applicable		
	Acute toxicity(Inhalation: Dust)	Classification not possible	Classification not possible	Classification not possible		
	Acute toxicity(Inhalation: Mist)	Classification not possible	Not applicable	Not applicable		
	Skin corrosion / Irritation	Category 3	Classification not possible	Classification not possible		
	Serious eye damage / Eye irritation	Category 2A-2B	Category 2B	Classification not possible		
ş	Respiratory sensitization	Classification not possible	Classification not possible	Classification not possible		
Health hazards	Skin sensitization	Classification not possible	Classification not possible	Classification not possible		
haz	Germ cell mutagenicity	Classification not possible	Not classified	Not classified		
뮾	Carcinogenicity	Classification not possible	Category 1B	Category 1A		
lea	Reproductive toxicity	Classification not possible	Category 1B	Classification not possible		
T		Category 3 (Respiratory tract irritation)	Category 1 (Heart)	Category 1 (Respiratory system)		
	Specific target organ toxicity-Single exposure		Category 2 (Respiratory system)			
	Specific target organ toxicity-Repeated exposure	Classification not possible	Category 1 (Respiratory system)	Category 1 (Respiratory system, Kidney)		
	Aspiration hazard	Classification not possible	Classification not possible	Classification not possible		
Environmental	Hazardous to the aquatic environment (Acute)	Not classified	Category 3	Classification not possible		
Hazards	Hazardous to the aquatic environment (Chronic)	Not classified	Category 3	Classification not possible		
	Symbols					
		Warning	Danger	Dapager		
Signal Word		warning	Danger	Danger		

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	Hazards	Hazardous to the aquatic environment (Chronic)	Classification not possible	Classification not possible	Classification not possible	
Signal Word - Warning Warning	Symbols			!	(!)	
a granning Walling		Signal Word		Warning	Warning	

Composition / Information on Ingredients

Substance / Mixture: Mixture

Ingredients and contents

Chemical Chemical		Industrial Safety and Health Law		Chemical Management Promotion Law (Responding to revised government ordinance of Oct 1, 2009)						Poisonous and	
name	name formula Haz of w na		Content (Weight %)	Names of designated chemical substances	Content (Weight %) Note 1	Appended table number	Item number	Class 1 designated chemical substance	Specified Class 1 designated chemical substance	Class 2 designated chemical substance	Deleterious Substances Control Act
Tantalum oxide	Ta ₂ O ₅	Tantalum and its oxide	10 - 20	10 - 20 —		_	_	_	_	_	_
Boron trioxide	B_2O_3	Boron trioxide	10 - 20	Boron compounds	15	Table 1	405	0	-	_	—
Silicon dioxide	SiO ₂	Silica	2 - 10	_	_	-	_	-	-	-	_
Zirconium oxide	ZrO ₂	Zirconium compounds	2 - 10	—	_	_	—	-	-	-	_
Tin oxide	SnO	Tin and its compounds	0 - 2	_	_	_	_	_	_	_	_
Antimony trioxide	Sb_2O_3	Antimony and its compounds	0 - 2	Antimony and its compounds	0.10	Table 1	31	0	_	_	0

Note 1: Weight percentages of relevant substances are listed in accordance with the Chemical Management Promotion Law(Japan)

First Aid M	easures					
	Eye contact :	e grinding or polishing liquids come into contact with eyes, immediately rinse the eyes with n water and obtain a medical diagnosis, if necessary. In the case of contact with dust from processing, be careful to avoid damaging the eyeballs and obtain a medical diagnosis.				
	Mouth contact :	If grinding and polishing liquids and dust enter the mouth, rinse with plenty of water. If ingestion occurs, give the patient plenty of water and induce vomiting, then obtain a medical diagnosis, if necessary.				
Fire-Fightir	ng Measures					
	Since optical glasses are	nonflammable, any extinguishing media may be used.				
Spillage Co	ountermeasures					
	Grinding and polishing liquids	Stop the flow with sandbags or the like to prevent the spill from contaminating soil or being absorbed into wastewater systems such as sewers. Collect as much of the released liquid as possible into an empty container.				
	Dust	Prevent dust from contaminating soil or being absorbed into wastewater systems such as sewers, and collect as much of the released dust as possible into an empty container. Be sure to remain upwind and wear a dust mask when dealing with dust spills.				
Handling a	nd Storage					
	During grinding, polishing * When handling, be dry processing from	physically and chemically stable, no precautions are required in handling and storage. g, and dry processing e careful to prevent grinding and polishing liquids, grinding and polishing waste, and dust from m escaping and contaminating the environment; and hands thoroughly after work.				

Exposure Control / Personal Protection

 Although there is no potential hazard in exposure to optical glass due to its physical and chemical stability, exposure to the mist scattered during wet processing and the scattered dust created during dry processing may result in injury.

 During wet processing
 :
 Prevent mist from scattering by providing the processing machine with a protective cover or the like.

 During dry processing
 :
 Prevent dust from scattering by installing a local exhaust system or the like.Wear a dust mask. Wear eye protection, if necessary.

Control concentrations of chemical substances

Chemical substance name	Dust
Control concentration	E=3.0 mg/m ³

Physical and Chemical Properties

Physical state	:	Solid
Color	:	Pale yellow, transparent or colorless and transparent
Odor	:	Odorless
рН	:	Not applicable
Temperature of changing physical state (Yield point)	:	765°C
Specific gravity	:	5.52
Solubility	:	Low

Stability and Reactivity

Stability	:	Stable
Reactivity	:	Normally unobservable
Decomposition products	:	Normally unpredictable

Toxicological Information

Since optical glasses are physically and chemically stable, they do not have acute toxicity or local effects.				
Grinding and polishing liquids and grinding and polishing waste and dust have:				
Acute toxicity	:	No information		
Carcinogenicity	:	No information		
Chronic toxicity	:	Cumulative chronic toxicity through inhalation and skin contact		

Ecological Information

Since optical glasses are physically and chemically stable, they have no ecological effects. Gas generated during melting does not have hazardousness to the ozone layer.

Disposal Considerations

Commission disposal to approved and licensed waste disposers in accordance with the relevant laws and regulations concerning the disposal and handing of wastes.

Transport Information

None

Regulatory Information(Japan)

Industrial Safety and Health Law, enforcement ordinance of the same, bylaw of the same Pneumoconiosis Law, enforcement regulations of the same Ordinance on the Prevention of Dust Hazard Ordinance on the Prevention of Lead Poisoning Ordinance on the Prevention of Hazards due to Specified Chemical Substances Working Environment Measurement Law, enforcement ordinance of the same, enforcement bylaw of the same, standard of the same, standards for working environment evaluation Water Pollution Control Law, enforcement ordinance of the same, enforcement bylaw of the same, prefecture and ministry ordinances, notifications, and the like stipulating effluent standards **Chemical Management Promotion Law** Soil Contamination Countermeasures Act, enforcement ordinance of the same, enforcement regulations of the same. Poisonous and Deleterious Substances Control Act, enforcement ordinance of the same, enforcement regulations of the same. Waste Disposal and Public Cleansing Law, enforcement ordinance of the same, enforcement bylaw of the same •Please confirm applicability of laws and regulations depending upon the site scale, installed capacity, and the like. •Make sure you are aware of and adhere to all applicable local regulations.

Other Information

Contact us if you wish to melt down glass for recycling or other purposes.