

Product identifier used on the	ne label
Product Name	XYRON¹ [™] S201A, S202A, S203A
SDS No.	XY-A012-2
Name, address, and telepho	one number of the chemical manufacturer, importer, or other responsible party
Company Name	ASAHI KASEI CORPORATION
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	ASAHI KASEI CORPORATION(JAPAN) R&D Planning and Business Development Performance Plastics Technical Dept. (XYRON) Phone +81-44-271-2561, Fax +81-44-271-2168 Business time: 9:00~18:00 on weekday
Recommended use of the	chemical and restrictions on use
Recommended use	Plastic ingredient for home electronics, electronic materials, automotive materials, industrial materials, consumer goods.
Restriction on use	 <notice &="" concerning="" of="" the="" use="" warning="" xyron=""> Do not use XYRON for the parts below.</notice> • Medical vessels, packages, apparatus, parts which touch inside the human body, mucous membranes, body fluid, blood, and medicine permanently or continuously for a long term (more than 30 days). • Equipments, parts which contact with food containers/ packaging / equipment/ parts and drinking water. • Toys which contacts with mouth, drinking water etc. Note that XYRON may be used for these applications with concretizatio of the applications if these application only touch temporary. Please contact us for detail.



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[GHS-Classification]	
Physical Hazards	Classification not possible
Health Hazards	
Reproductive toxicity	Category 1
Environmental Hazards	Classification not possible
Other Hazards	No information
Signal word, hazard stateme	ent(s), symbol(s) and precautionary statement(s) in accordance with
paragraph (f) of §1910.1200	
[GHS label element]	
Symbol(s)	
Signal word	Danger
Hazard Statement(s)	May damage fertility or the unborn child
[Precautionary Statement(s	
Prevention	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/ container in accordance with related laws and local/ regional regulations.
Other information	 Do not handle until all safety precautions have been read, understood and precautionary measures are taken. Do not eat, drink or smoke when using this product. Wear protective gloves, eye-protection, and dust-protective mask, if necessary. In order to avoid dust explosion, this product should be handled in inert gas and without Ignition source (heat).
Description of any hazards not otherwise classified	May cause a dust explosion.Gas is generated in melted condition.

3. Composition/information on ingredients

Chemical name or generic name; Poly(2,6-dimethyl-1,4-phenylene ether)

Components	Content[wt%]	CAS No.	EINECS No.
Poly(2,6-dimethyl-1,4-phenylene ether)	>99.7	25134-01-4	N/A
Toluene	< 0.3	108-88-3	203-625-9
Total	100	-	-

 All of ingredients are listed on TSCA, EINECS (ELINCS), ENCS (JPN), ISHL (JPN), IECSC (CHN), ECL(KOR), PICCS(PHL), DSL(CAN), AICS(AUS), and ERMA(NZL) inventories.



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4. First aid measures

delayed

the first aid.

Protection who gives

Indication of immediate

medical attention and special treatment

the dust.

No information

Necessary first-aid measur	res by relevant routes of exposure
Inhaled. (Dust)	 Remove from exposure to fresh air and gargle with plenty of water. If you feel unwell, seek immediate medical attention.
Eyes.	 Do not rub eyes. Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses immediately if worn. Seek immediate medical attention.
Skin.	Do not peel off melted material; cool down affected area with plenty of water for more than 30 minutes. Then get medical attention.
Inhaled. (Gases from the molten resin)	When gases from the molten resin are inhaled, remove the victim from the area to give fresh air. If you feel unwell, seek immediate medical attention.
Swallowed	Rinse mouth. Immediately get medical advice/attention.
Most important symp toms/effects, acute and	May damage fertility or the unborn child.

Wear protective mask to avoid inhalation of the dust, and ventilate to remove

needed, if necessary	
5. Fire-fighting measu	res
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media	Spraying water and other extinguisher can be used.
Unsuitable extinguishing media	Applying direct water may be dangerous because fire may expand to surroundings.
Specific hazards arising from the chemical	Strong heat, black fume and gases such as CO ₂ , CO may be generated on fire.
Special protective equipment and precautions for fire-fighters	Use the same fire fighting method as the general fire. Fight fire from the safe distance. Wear fire retardant clothing and respiratory equipment when fighting fire. Work from the windward.



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6. Accidental release measures

or Acordonical Followood Intological Co	
Personal precautions, protective equipment and emergency procedures	 In case powder spills in large quantities, persons in the area should be evacuated and moved upwind. The area where powder spills should be isolated and indicate off-limits.
Emergency measures and protective equipment	Wear protective equipment (safety glasses, dust mask, and as necessary, respirator) to avoid contact with dust, inhalation.
Environmental precautions	In case powder leaks to the waste water system, all powder should be collected considered bad influences to birds and fish, etc.,
Methods and materials for containment and cleaning up	 Remove the ignition source from the area. Smoking, naked flame in the area and bringing ignition source into the area is prohibited. Use shovel that does not spark, and explosion-proof collecting device. Stop leakage safely. Use water spray or spray to prevent dust explosion. Leaked powder should be collected into indicated disposal container(drums etc.,).
Prevention of secondary disaster	None.

7. Handling and storage

< Precautions for safe handling >

- Tedadilono for sale flaman	
Prevention dust explosion	This product is powder. That need special attention When handling of this product, special attention should be paid to dust explosion, notes of dust explosion prevention are described below. The lower explosive limit concentration of PPE powder in the air is 50g/m³ (when average particle size is 35µm), there is enough possibility to cause dust explosions. To prevent dust explosions, Do not create explosive dust environment. If it is not possible, keep the environment that does not meet the explosion conditions (Cut off the oxygen, and don't create the ignition source etc,.). To prevent the formation of explosive atmosphere, specific methods are described below.
(1)Safety of handling	 When handling PPE powder, to prevent scattering over wide range, handle as quiet as possible, flow, agitation, etc. should be minimized. When PPE powder is filled bag or container etc., handling amount should be as small as possible, and to prevent powder scattering, opening space of bags or containers etc., should be as small as possible. Handle inside enclosed device as possible. If there's no choice but to handle in open area, take appropriate actions should be taken such as to equip forced ventilation device. Floating and scattering dust should be removed by forced ventilation.

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SAFETY DATA SHEET

(2)Leakage prevention	When PPE powder is filled bag or container etc., handling amount should
	be as small as possible, and be used hopper, or chute as possible.
	When PPE powder is loaded or unloaded containers, install bag filters
	where respiration (increase or decrease of the air concentration in gas
	phase) caused by this occurs, to prevent powder leakage.
	When opening devices or facilities to repair, remove PPE powder inside
	these beforehand to prevent powder leakage, and confirm powder does
	not remain.
	Install leakage-detecting equipment as much as possible to devices or
	facilities PPE powder inside which is likely to leak to minimize leakage
	even if leakage caused by accidents occurs.
(3)Floating, scattering and	Install forced ventilation or exhaust devices in following locations where
accumulation prevention	PPE powder is handled.
	(A) Where opening bags or containers which contains PPE powder.
	(B) Where PPE powder is handled at open system.
	(C) Where PPE powder is likely to leak.
	If necessary, use mobile forced ventilation or exhaust devices in following
	cases when PPE powder is handled.
	(A) When PPE powder handled temporarily.
	(B) When brush off the powder adhering to bags, containers, or operators.
	(C) When inspecting or repairing of devices or facilities inside which PPE
	powder is handled.
	Buildings and equipment should have the structure which PPE powder is
	difficult to accumulate, and easy to remove if accumulates. Devices and
	facilities inside which PPE powder is handled at open system install
	partition wall where required to prevent widespread scattering.
(4) Dangerous atmosphere	In case PPE powder is handled at or nearly closed facilities, replace the air
prevention	in surrounding apace with inert gas such as nitrogen or carbon dioxide.
	According to handling of inert gas, follow the MSDS or handling standards.
	• (Oxygen concentration becomes less than 10%, dust explosion does not
	occur even if dust concentration is 150g/m³.)
	Minimize the volume of facilities or devices inside which PPE powder is
	handled as possible, and eliminate dead space. PPE powder should be
	handled independently as possible, shouldn't be mixed with flammable
(E) Ignition course	liquids and flammable gas / vapor.
(5) Ignition source	In and around places handling PPE powder, comply with the followings so as
prevention	not to create a source of ignition.
	 Electrical machinery or dust collector used the places should be dust-proof.
	•
	 Heating appliances (stove, etc.) must not be used. Smoking and carrying matches, lighters, etc. are prohibited.
	 To prevent generation of static electricity, equipment should be surely
	grounded.
	Use safety tools that do not generate spark.
	Prevent generation and access of ignition sources.
<conditions for="" safe="" storage<="" td=""><td>including any incompatibilities ></td></conditions>	including any incompatibilities >
-Conditions for sale storage,	moldarily any incompatibilities >



Safe handling precautions	While handling this product, do not eat or drink.
.	To avoid exposure, use personal protective equipment and ventilation
	device. If there is a risk of exposure, wear protective equipment
	(protective gloves, safety glasses, dust mask, etc.) to avoid inhalation and contact.
	• Keep PPE powder concentration below allowable level (see section 8)
	 Use the effective ventilation and exhaust devices and handle only in a well-ventilated area.
	Wash contaminated cloths when reusing them.
	After handling, wash hands well.
	Avoid releasing to the environment.
	• If PPE powder is spilled on the floor, remove and clean immediately. If it
	is leaved, there're risks of slipping and falling.
	 Determine correct work procedures and comply with them.
Incompatible materials	No information
Storage	Be stored at places where meet appropriate storage conditions as follows.
	· Store at places where are not exposed to direct sunlight.
	-Store to avoid the high temperature and humidity.
	· Store away from sources of ignition.
	· Take measures to prevent static electricity disaster.
Packing material	Use packing container materials suitable for storage conditions.

8. Exposure controls/personal protection		
Appropriate engineering	See "7. HANDLING AND STORAGE" for facility measures. Install shower,	
controls	hand wash, a face-wash facility at handling area, and clearly indicate their	
	places. In addition, display indications which call person's attention such	
	as "No Fire", "No Entry to Unauthorized Persons" or "Wear long sleeves".	
Administrative level,	Gases are generated from melted resin but administrative level and	
allowable limit	allowable limit are not established.	
<toluene></toluene>	OSHA PEL (2016): 200 ppm	
	ACGIH TLV-TWA (2016): 20 ppm, 75 mg/m ³	
<dust></dust>		
Allowable limit for this resir	is not established in AGCIH. However below values are applicable for dust.	
Airborne Exposure Limit	(reference 2, 3)	
OSHA PEL	15 mg/m ³ (Total PNOR)	
	5 mg/m³ (Respirable PNOR)	
	*PNOR: Particulates not otherwise regulated	
ACGIH TLV-TWA	3 mg/m³ (Respirable PNOS)	
	10 mg/m³ (Inhalable PNOS)	
	*PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified	
< Individual protection measures, such as personal protective equipment >		



Respiratory protection	Wear gas mask for organic gas when working in a place where generated gas or fume may be breathed. Wear dust control mask when dust is caused by the works such as machinery processing of resin product, sanding, removing resing powder from bag filter, cleaning of sieving machine.
Hand protection	It is recommended to wear hand protection if necessary. Especially when handling melted resin, wear heat-resistant gloves for burn prevention.
Eye protection	It is recommended to wear side-shielded eye protection made with resin, resin goggles.
Skin and body protection	Wear long-sleeved clothing when handling melted resin for burn prevention.

9. Physical and chemica	l properties
Appearance	Plastic powder. White or pale yellow
(physical state, color, etc.)	
Odor	None or Slight odor
Odor threshold	No information
рН	Not applicable
Melting point/freezing point	These products don't exhibit a sharp melting point, but softens gradually (glass transition temperature (Tg) of these products are about 215 deg. C.)
Initial boiling point and boiling range	No information
Decomposition temperature	>400 deg C
Ignition point	>400 deg C
Flash point	>450 deg C
Evaporation rate	No information
Flammability (solid, gas)	This product is incombustible or has flame resistance.
Upper/lower flammability or	PPE powder has a possibility to cause dust explosions.
explosive limits	The following data is obtained by Hartmann type dust explosion test (* 1)
	In the case of PPE powder having average particle size is 35µm, 50%
	probability of explosion (in air)
	Dust concentration: 75g/m ³
	Lower explosive limit concentration: 50g/m ³
	Minimum ignition energy: When concentration is 800g/m³, 9.9mJ
	(* 1) Based on the result of outside testing laboratory data:
Vapor pressure	No information
Vapor density	No information
Relative density	No information
Specific gravity	1.05 - 1.1
	bulk specific gravity: 0.4-0.6g/ml
Solubility (ies)	
Water	Insoluble
Other solvent	Soluble in organic solvent (Chloroform, Toluene etc.)



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Partition coefficient: n-octanol/water	No data
Auto-ignition temperature	No information
Viscosity	No information
Other information	No information

_10. Stability and reactivi	ty		
Chemical stability	Stable at room temperature as far as stored protected from direct sunlight, away from fire or heat source.		
Reactivity	 There's no reactivity under general storage or handling. However, if explosive dust is generated in the air, and ignition source and oxygen source is present, explosive combustion will occur due to rapid oxidation reaction(dust explosion). Dust explosion prevention measures: PPE powder dust should not 		
	be scattered . If this is not possible, do not create the source of ignition and be an inert gas atmosphere.		
Possibility of hazardous	May cause a dust explosion.		
reactions	Gas is generated in melted condition.		
Conditions to avoid	Direct sunlight, fire, heat source, and dust generation		
Incompatible materials	None.		
Hazardous decomposition products	Black fume, gases such as CO ₂ , CO may be generated in combustion.		
Hazardous polymerization	Will not occur.		
Storage stability	Stable		
Oxidizing property	None		
Self-reactivity	None		

11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

The classifications of each component in products are referred to reference 1, 4, 5, and 6.

Ingredients Content	Poly(2,6-dimethyl-1,4-p henylene ether) > 99.7 wt%	Toluene	Classification of Products
Acute toxicity (oral)	Classification not possible	Category 5 LD50=4800mg(rat)	Classification not Possible 1)
Acute toxicity (inhalation: vapor)	Classification not possible	Category 4	Classification not Possible ²⁾
Skin corrosion / irritation	Classification not possible	Category 2	Classification not Possible 3)
Serious eye damage / eye irritation	Classification not possible	Category 2B	Classification not Possible ⁴⁾
Reproductive Toxicity	Classification not possible	Category 1A	Category 1 5)
Specific target organ toxicity - Single exposure	Classification not possible	Category 1 (central nervous system) Category 3 (respiratory tract irritation,	Classification not Possible ⁶⁾



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		narcotic effects)	
Specific target organ toxicity - Repeated exposure	Classification not possible	Category 1 (Central nervous system, kidneys, liver)	Classification not Possible ⁶⁾
Aspiration hazard	Classification not possible	Category 1	Not applicable 7)

Note:

- ATE of poly(1,4-dimethyl-2,6-phenylene oxide) is unknown, but the acute toxicity (oral) is estimated to be very low, so ATE of PPE was defined as ATE = ∞. As a result, the value of ATEmix was more than 5000, and the classification of products is specified as "Classification not possible".
- 2. The products cannot be classified because the hazardous substances are not inhaled as dust, gas, vapor and mist for they are covered by the product resin and not likely to be separated by the exudation
- 3. The products cannot be classified because the hazardous substances are not exposed to the skin directly for they are covered by the product resin and not likely to be separated by the exudation etc.
- 4. The products cannot be classified because the hazardous substances are not exposed to the eyes directly for they are covered by the product resin and not likely to be separated by the exudation etc.
- 5. According to the accordance with appendix A of §1910.1200 for mixtures, the classification of products is specified as "Category 1".
- 6. The products cannot be classified because the hazardous substances are not inhaled as dust, gas, vapor and mist for they are covered by the product resin and not likely to be separated by the exudation etc.
- 7. The products are classified as "Not applicable" because they are solid at room temperature.

Delayed and immediate	May damage fertility or the unborn child.
effects and also chronic	
effects from short- and	
long-term exposure	
Numerical measures of	Acute toxicity was estimated based on ingredients of the product by
toxicity (such as acute	additivity formula.
toxicity estimates)	
Whether the chemical is	IARC: Group 3 (Toluene)
listed in the NTP Report on	NTP Report: Not listed
Carcinogens or has been	OSHA: Not listed
found to be a potential	
carcinogen in the IARC	
Monographs, or by OSHA	

12. Ecological information

The classifications of each component in products are referred to reference 1, 4, 5 and 6.

Ingredients Content	Poly(2,6-dimethyl-1,4-p henylene ether)	Toluene	Classification of
	> 99.7 wt%	< 0.3wt%	Products
Hazardous to the aquatic environment (acute)	Classification not possible	Category 2	Classification not Possible 1)
Hazardous to the aquatic environment (chronic)	Classification not possible	Not classified	Classification not Possible

Note:

1. According to the GHS classification criteria for mixtures, the classification of products is specified as "Classification not possible".



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Persistence and	Information on product: No information
degradability	Poly(2,6-dimethyl-1,4-phenylene ether): No information
	Toluene: No information
Bioaccumulative potential	Information on product: No information
	Poly(2,6-dimethyl-1,4-phenylene ether): No information
	Toluene: No information
Mobility in soil	Information on product: No information
	Poly(2,6-dimethyl-1,4-phenylene ether): No information
	Toluene: No information
Other adverse effects	No information

13. Disposal considerations

Waste treatment methods

Dispose of according to regulation and standard of regional government.

Avoid direct release of waste containing this product (effluent, solid and washing water) to the river or landfill.

In case of incineration treat by the method in accordance with relevant laws such as Air Pollution Control Law using the incinerator.

Remove all the residues before disposal of the container (paper bag, drum, flexible container) of this product after use, dispose of in accordance with relevant laws and do not re-use for other usage.

14. Transport information	n
<international regulations=""></international>	
IMDG	Not restricted
ICAO-TI/ IATA-DGR	Not restricted
Transport hazard class(es)	Not restricted
UN number	Not restricted
UN proper shipping name	Not restricted
Packing group	Not restricted
Environmental hazards	Not restricted
Transport in bulk according to	Not restricted
Annex II of MARPOL 73/78	
and IBC code	
Special safety precautions	Do not handle roughly and keep dry not to break packaging bag. If the bag
and conditions during	is broken and pellet is spilt, pay attention not to fall by slippery floor. If
transport	transpoprted by air-conveying line take prevention measures against static
	discharge.
<u.s.a></u.s.a>	1
U.S. Department of	Not restricted
Transportation(D.O.T)	
<canada></canada>	
Canadian T.D.G. Information	Not restricted



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15. Regulatory information

These products are classified according to the hazard criteria of the controlled products regulation, this SDS includes all of the information that is required by the controlled products regulation.

<U.S.A>

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OSHA	These products are hazardous under 29 CFR 1910.1200.
TSCA	All components on TSCA.
40 CFR 799, Subparts B	B-C Not Applicable
40 CFR 721 Subpart E	Not Applicable
40 CFR 747,749,761~ 3,766	Not Applicable
40 CFR 712, Subpart B	Not Applicable
40 CFR 716.120, Subpa	rt These products may contain the following materials.
В	Name Cas No. Content (wt%) Toluene 108-88-3 <0.3
CERCLA/ SUPERFUND (40 CFR 117,302)	These products may contain the following materials. Name Cas No. Content (wt%) Toluene 108-88-3 <0.3
SARA TITLE III	
Section 302 (40CDR355	i) None
Section 311/312 (40CFR370)	Immediate(acute) health hazard : No Delayed(chronic) health hazard : No Fire hazard : No Sudden release of pressure : No Reactive : No
Section 313 (40CFR372	
,	Name Cas No. Content (wt%) Toluene 108-88-3 < 0.3
Clean Air Act	These products may contain the following materials. Name Cas No. Content (wt%) Toluene 108-88-3 <0.3
Clean Water Act	These products may contain the following materials. Name Cas No. Content (wt%) Toluene 108-88-3 <0.3
State regulations	
California Prop 65	These products may contain the following materials. Name Cas No. Content (wt%) Toluene 108-88-3 < 0.3
<u>Canada</u>	eral, state and local regulations.
WHMIS	Not Applicable
<u>EU</u>	
1272/2008 Annex VI	Toluene (< 0.3wt%)
Table-3.1	Flam. Liq. 2
	Asp. Tox. 1
	Skin Irrit. 2
	STOT SE 3
	Repr. 2
	STOT RE 2



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1272/2008	
Table-3.2	Toluene (< 0.3wt%)
Table-3.2	F; R11
	Repr. Cat 3; R63
	Xn; R48/20-65
	Xi; R38
	R67
REACH SVHC	
REACH SVHC	None present or none present in regulated quantities. None present or none present in regulated quantities.
REACH Annex XVII	These products contain Toluene less than 0.3wt%.
REACH AIIIEX AVII	Entry 48 prohibits the placing on the market for supply to the general
	public of toluene as a substance or in mixtures, in a concentration equal
	to or greater than 0.1% by weight, where the substance or the mixture is
	used in adhesives and spray paints.
DIRECTIVE 2000/53/EC	None present or none present in regulated quantities.
(ELV) DIRECTIVE 2002/95/EC	None present or none present in regulated quantities.
(RoHS)	None present or none present in regulated quantities.
hina	
Limited toxic chemical	None
substances for export	
Prohibited cargo list for	None
import and export	
General rule for	None present or none present in regulated quantities.
classification and hazard	
communication of	
Chemicals (GB.13690)	The second state was a section to a fallowing a section in
List of Dangerous Goods	These products may contain the following materials. Name Cas No. Content (wt%)
	Name Cas No. Content (wt%) Toluene 108-88-3 <0.3
	Toluene 100-00-3 <0.3
List of Hazardous	These products may contain the following materials.
Chemicals	Name Cas No. Content (wt%)
	Toluene 108-88-3 <0.3
orea	
Prohibited or regulated	None
toxic substances	None
Toxic substances	These products may contain the following materials.
	Name Cas No. Content (wt%)
	Toluene 108-88-3 <0.3
Observed substances	None present or none present in regulated quantities.

16. Other information, including date of preparation or last revision

Update history: Date of issue: Oct. 01, 2003

Date of revision: Jan. 01, 2017

Hazard statements and risk phrases of ingredient(s) which do not appear elsewhere in this SDS These products are used only for raw material of XYRON compound. Use is prohibited to other usages.

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Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. Refer to "XYRON Technical information " for additional guidance and information .

Note;

The information furnished in this Material Safety Data Sheet is accurate to the best knowledge of ASAHI KASEI CORPORATION ("Asahi") as of the date of its publication.

This SDS is not intended to create any liability of any kind on the part of Asahi.

In no event will Asahi be responsible for any death, injury or damage of any nature resulting from the use of, reliance upon, or misuse of the SDS or material to which it refers.

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This SDS is furnished under the express condition that all persons receiving it will make their own determination as to its suitability for their purpose prior to use.

Responsibility for compliance with applicable national or local regulations concerning dissemination of the SDS and sale and use of the material to which it refers rests solely upon the purchaser.

For more information, please contact Asahi at the address and telephone number listed on this sheet.

Reference

- 1) Incorporated Administration Agency National Institute of Technology and Education HP(Japan), http://www.safe.nite.go.jp/ghs/ghs_download.html
- 2) ACGIH, "Guide to Occupational Exposure Value, (2016)
- 3) ACGIH, "TLVs, and BEIs® Based on the Documentation of the Threshold Values for Chemical Substances and Physical Agents & Biological Exposure Indices", (2016)
- 4) IARC Monographs (Vol. 1-95, 29 Nov. 2006)
- 5) (EU)1272/2008(CLP)
 - http://ec.europa.eu/enterprise/sectors/chemicals/documents/reach/review-annexes/index en.htm
- 6) Globally Harmonized System of Classification and Labeling of Chemical, (3rd revised edition).