

SAFETY DATA SHEET**1. Chemical product and company identification**

Product identifier used on the label	
Product Name	XYRON™ 240V, 240VF, 250V, 340V, 381V, 540V, 581V, 640V, 740V, 240W, 340W, 240Z, 241Z, 281Z, 340Z, 342Z, 381Z, 340ZF, 440Z, 442Z, 540Z, 581Z, 640Z, 644Z, 744Z, F144Z, PV50Z, R240Z, R340Z, PV40Z, XS700 1950#, 1951#, TV07#, TV08#, TV10# (# : A~Z), FL50V, VN30V, WH100, CN50V, VN50Z, SZ800, X4310, X331V, G601V, G601Z, G544V, X603V, L524V, L554V, L654V, 40W, X1104, X1106, X1107, X1108, X1109, X1110, X1232, X332V, X333V, X343V, X344V, X364V, X444V, X523V, X583V, NC42Z, L542V, L542Z, L543V, L543Z, L544V, L564V, L564Z, L565V, L574Z, X1744, X1745, X7744, VT31V, VT31Z, VT51V, VT32V, VT52Z, X351V, X551V, X352V, X552V, Z352V, Z703V, X8610, C443V, BT30Z, BT50Z
SDS No.	XY-W022-2
Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party	
Company Name	ASAHI KASEI CORPORATION
Address	1-105 Kanda Jinbo-cho, Chiyoda-ku, Tokyo 101-8101 Japan
Contact Telephone Number	ASAHI KASEI CORPORATION (JAPAN) Phone +81- 3-3296-3386 , Fax +81- 3-3296-3473 ASAHI KASEI PLASTICS (NORTH AMERICA), Inc. Phone +1-517-223-2000 ASAHI KASEI EUROPE GmbH Phone +49- 211-8822-030 , Fax +49-211-8822-0333 ASAHI KASEI PLASTICS SINGAPORE PTE. LTD. Phone +65-6324-3001 , Fax +65-6324-3808 ASAHIKASEI PLASTICS (THAILAND) CO., LTD. Phone +66-35-350-720 , Fax +66-35-350-716 ASAHI KASEI PLASTICS (SHANGHAI) CO., LTD. Phone +86-21-6391-5252 , Fax +86-21-6391-5886 ASAHI KASEI PLASTICS (HONG KONG) CO., LTD. Phone +852-2151-4000 , Fax +852-2116-4300 ASAHI KASEI PLASTICS (GUANGZHOU) CO., LTD. Phone +86-20-8527-1616 , Fax +86-20-8527-1700
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URL	http://www.akchem.com/
Recommended use	

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Poly(2,6-dimethyl-1,4-phenylene ether)	30-40	30-40	35-45	45-55	45-55	25134-01-4	N/A
Polystyrene, High Impact polystyrene	40-50	40-50	35-45	25-35	20-30	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer	0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer	0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	10-20	10-20	10-20	10-20	10-20	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	100	-	-

Product Name: 540V, 640V, 581V, 740V

Components	Product Name	Contents[wt%]				CAS No.	EINECS No.
		540V	640V	581V	740V		
Poly(2,6-dimethyl-1,4-phenylene ether)		55-65	60-70	55-65	65-75	25134-01-4	N/A
Polystyrene, High Impact polystyrene		20-30	20-30	25-35	20-30	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		5-15	2-10	2-10	2-10	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)		<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	-	-

Product Name: 240W, 340W, 240Z, 241Z, 281Z

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		240W	340W	240Z	241Z	281Z		
Poly(2,6-dimethyl-1,4-phenylene ether)		25-35	30-40	30-40	45-55	45-55	25134-01-4	N/A
Polystyrene, High Impact polystyrene		55-65	50-60	25-35	20-30	25-35	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	3-10	10-20	10-20	10-20	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)		<1	<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	-	-

Product Name: 340Z, 342Z, 381Z, 340ZF, BT30Z

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		340Z	342Z	381Z	340ZF	BT30Z		
Poly(2,6-dimethyl-1,4-phenylene ether)		50-60	55-65	50-60	50-60	50-60	25134-01-4	N/A
Polystyrene, High Impact polystyrene		15-25	15-25	20-30	20-30	15-25	9003-53-6 and/or 9003-55-8	N/A

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Styrenic Elastomer	0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer	0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	10-20	12-22	10-20	10-20	10-20	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	100	-	-

Product Name: 440Z, 540Z, 581Z, 640Z, 644Z, 744Z, BT50Z, PV50Z

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.	
		440Z	540Z 581Z PV50Z	640Z	644Z	744Z			BT50Z
Poly(2,6-dimethyl-1,4-phenylene ether)		55-65	60-70	65-75	70-80	75-85	60-70	25134-01-4	N/A
Polystyrene, High Impact polystyrene		15-25	10-20	10-20	3-10	3-10	10-20	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		10-20	5-15	5-15	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)		<1	<1	<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	100	-	-

Product Name: F144Z, R240Z, R340Z, 442Z, PV40Z, XS700

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		F144Z	R240Z	R340Z	442Z PV40Z	XS700		
Poly(2,6-dimethyl-1,4-phenylene ether)		30-40	40-50	45-55	60-70	75-85	25134-01-4	N/A
Polystyrene, High Impact polystyrene		45-55	25-35	20-30	0-5	0-5	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	10-20	3-10	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		10-20	10-20	10-20	10-20	10-20	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	-	-

Product Name: 1950#, 1951#, TV07#, TV08#, TV10# (# : A~Z)

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		1950#	1951#	TV07#	TV08#	TV10#		
Poly(2,6-dimethyl-1,4-phenylene ether)		20-30	20-30	25-35	30-40	35-45	25134-01-4	N/A
Polystyrene, High Impact polystyrene		50-60	50-60	40-50	35-45	35-45	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A

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Aromatic phosphate ester	10-20	10-20	15-22	15-22	15-22	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	<1	<1	1-3	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	100	-	-

Product Name: FL50V, VN30V, WH100, CN50V, VN50Z

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		FL50V	VN30V	WH100	CN50V	VN50Z		
Poly(2,6-dimethyl-1,4-phenylene ether)		55-65	35-45	40-50	55-65	60-70	25134-01-4	N/A
Polystyrene, High Impact polystyrene		15-25	25-35	0-10	5-15	0-5	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	15-25	30-40	15-25	15-25	66070-58-4 and/or Confidential	N/A
Elastomer		3-10	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		5-15	5-15	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)		<1	<1	1-5	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	-	-

Product Name: SZ800, X4310

Components	Product Name	Contents[wt%]		CAS No.	EINECS No.
		SZ800	X4310		
Poly(2,6-dimethyl-1,4-phenylene ether)		75-85	50-60	25134-01-4	N/A
Polystyrene, High Impact polystyrene		3-10	15-25	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		3-10	3-10	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	10-20	181028-79-5 or 5945-33-5	425-220-8
Additives (Stabilizer etc.)		<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)		<1	1-3	Confidential	Registered
Colorant		0-6	0-6	See Appendix	See Appendix
Total		100	100	-	-

Chemical name or generic name;

Mixture of Poly (phenylene ether) , styrenic resin, elastomer, aromatic phosphate ester and Inorganic filler.

Product Name: X331V , G601V, G601Z, G544V, X603V

Components	Product Name	Contents[wt%]					CAS No.	EINECS No.
		X331V	G601V	G601Z	G544V	X603V		
Poly(2,6-dimethyl-1,4-phenylene ether)		20-30	45-55	60-70	30-40	35-45	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated							219136-76-2	N/A
Polystyrene, High Impact polystyrene Styrenic copolymer		35-45	30-40	0-10	15-25	15-25	9003-53-6 and/or 9003-55-8 and/or Confidential	N/A
Styrenic Elastomer		0-3	0-3	3-10	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		5-15	5-15	15-25	10-20	3-10	181028-79-5 or	425-220-8

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						5945-33-5	
Inorganic filler (Glass fiber, Glass flake)	5-15	5-15	5-15	30-40	25-35	65997-17-3	266-046-0
Additives (Stabilizer etc.)	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)	<1	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	100	-	

Product Name: L524V, L554V, L654V

Components	Product Name	Contents[wt%]			CAS No.	EINECS No.
		L524V	L554V	L654V		
Poly(2,6-dimethyl-1,4-phenylene ether)					25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated		20-30	20-30	30-40	219136-76-2	N/A
Polystyrene, High Impact polystyrene Styrenic copolymer		25-30	15-25	10-20	9003-53-6 and/or 9003-55-8 and/or Confidential	N/A
Styrenic Elastomer		0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	3-10	3-10	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake)		35-45	35-45	35-45	65997-17-3	266-046-0
Additives (Stabilizer etc.)		<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	-	

Product Name: 40W, X1104, X1106, X1232

Components	Product Name	Contents[wt%]				CAS No.	EINECS No.
		40W	X1104	X1106	X1232		
Poly(2,6-dimethyl-1,4-phenylene ether)						25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated		15-25	25-35	15-25	25-35	219136-76-2	N/A
Polystyrene, High Impact polystyrene		60-70	15-25	35-45	30-40	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		5-15	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)		0-5	30-40	25-35	15-25	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Quartz		<0.1	<0.2	<0.15	<0.1	14808-60-7	238-878-4
Additives (Stabilizer etc.)		<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	-	-

Product Name: X1107, X1108, X1109, X1110

Components	Product Name	Contents[wt%]				CAS No.	EINECS No.
		X1107	X1108	X1109	X1110		
Poly(2,6-dimethyl-1,4-phenylene ether)						25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated		20-30	25-35	25-35	25-35	219136-76-2	N/A
Polystyrene, High Impact polystyrene		25-35	25-35	25-35	20-30	9003-53-6 and/or 9003-55-8	N/A

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Component	0-3	0-3	0-3	0-3	CAS No.	EINECS No.
Styrenic Elastomer	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	5-15	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)	25-35	25-35	25-35	30-40	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Quartz	<0.15	<0.15	<0.15	<0.2	14808-60-7	238-878-4
Additives (Stabilizer etc.)	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	-	-

Product Name : X332V, X333V, X343V, X344V, X364V, X444V

Components	Product Name						CAS No.	EINECS No.
	X332V	X333V	X343V	X344V	X364V	X444V		
Poly(2,6-dimethyl-1,4-phenylene ether)							25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated	20-30	15-25	20-30	20-30	25-35	25-35	219136-76-2	N/A
Polystyrene, High Impact polystyrene	40-50	35-45	25-35	20-30	15-25	20-30	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer	0-3	0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer	0-3	0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	5-15	5-15	5-15	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)	15-25	25-35	25-35	35-45	20-30	30-40	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Quartz	<0.1	<0.15	<0.15	<0.3	<0.3	<0.2	14808-60-7	238-878-4
Additives (Stabilizer etc.)	<3	<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	100	100	-	-

Product Name : X523V, X583V

Components	Product Name		CAS No.	EINECS No.
	X523V	X583V		
Poly(2,6-dimethyl-1,4-phenylene ether)			25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated	30-40	30-40	219136-76-2	N/A
Polystyrene, High Impact polystyrene	15-25	15-25	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)	25-35	25-35	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Quartz	<0.3	<0.15	14808-60-7	238-878-4
Additives (Stabilizer etc.)	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil (Mineral oil)	<1	<1	Confidential	Registered
Colorant	0-6	0-6	See Appendix	See Appendix
Total	100	100	-	-

Product Name: NC42Z

Components	Product Name	Contents[wt%]			CAS No.	EINECS No
		NC42Z				
Poly(2,6-dimethyl-1,4-phenylene ether)		50-60			25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated					219136-76-2	N/A
Polystyrene, High Impact polystyrene		0-5			9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		3-10			66070-58-4 and/or Confidential	N/A
Elastomer		0-3			Confidential	N/A
Aromatic phosphate ester		10-20			181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Mineral)		10-20			1332-58-7	310-194-1
Additives (Stabilizer etc.)		<3			Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1			Confidential	Registered
Colorant		0-6			See Appendix	See Appendix
Total		100			-	-

Product Name: L542V, L542Z, L543V, L543Z, L544V

Components	Product Name	Contents[wt%]					CAS No.	EINECS No
		L542V	L542Z	L543V	L543Z	L544V		
Poly(2,6-dimethyl-1,4-phenylene ether)		30-40					25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated		45-55					219136-76-2	N/A
Polystyrene High Impact polystyrene Styrenic copolymer		25-35	30-40	20-30			9003-53-6 and/or 9003-55-8 and/or Confidential	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	10-20	3-10	5-15	3-10	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)		15-25	15-25	25-35	25-35	35-45	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 And/or 238-877-9 And/or N/A
Quartz		<0.1	<0.1	<0.15	<0.15	<0.2	14808-60-7	238-878-4
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	-	-

Product Name: L564V, L564Z, L565V

Components	Product Name	Contents[wt%]			CAS No.	EINECS No
		L564V	L564Z	L565V		
Poly(2,6-dimethyl-1,4-phenylene ether)		20-30			25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated		25-35			219136-76-2	N/A
Polystyrene, High Impact polystyrene Styrenic copolymer		25-35	10-20	10-20	9003-53-6 and/or 9003-55-8 and/or Confidential	N/A
Styrenic Elastomer		0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	3-10	3-10	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)		35-45	35-45	45-55	65997-17-3 and/or 14807-96-6 and/or	266-046-0 and/or 238-877-9 and/or

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				12001-26-2	N/A
Quartz	<0.2	<0.2	<0.25	14808-60-7	238-878-4
Additives (Stabilizer etc.)	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	-	-

Product Name: L574Z, X1744, X1745, X7744

Components	Product Name	Contents[wt%]				CAS No.	EINECS No
		L574Z	X1744	X1745	X7744		
Poly(2,6-dimethyl-1,4-phenylene ether)		25-35	25-35	25-35	25-35	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated						219136-76-2	N/A
Polystyrene, High Impact polystyrene, Styrenic Copolymer		10-20	15-25	15-25	15-25	9003-53-6 and/or 9003-55-8 and/or Confidential	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		3-10	5-15	5-15	5-15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Glass fiber, Glass flake, Mineral)		35-45	30-40	30-40	30-40	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Quartz		<0.2	<0.1	<0.1	<0.1	14808-60-7	238-878-4
Additives (Stabilizer etc.)		<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	-	-

Product Name: VT31V, VT31Z, VT51V, VT32V, VT52Z

Components	Product Name	Contents[wt%]					CAS No.	EINECS No
		VT31V	VT31Z	VT51V	VT32V	VT52Z		
Poly(2,6-dimethyl-1,4-phenylene ether)		35-45	40-50	40-50	30-40	45-55	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated							219136-76-2	N/A
Polystyrene, High Impact polystyrene		15-25	5-15	10-20	10-20	3-10	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		10-20	10-20	10-20	10-20	10-20	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester		5-15	10-20	5-15	5-15	10-20	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Mineral)		5-15	5-15	5-15	15-25	15-25	14807-96-6 and/or 12001-26-2	238-877-9 and/or N/A
Additives (Stabilizer etc.)		<3	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<1	<1	<1	<1	Confidential	Registered
Colorant		0-6	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total		100	100	100	100	100	-	-

Product Name: X351V, X551V, X352V, X552V

Components	Product Name	Contents[wt%]				CAS No.	EINECS No
		X351V	X551V	X352V	X552V		
Poly(2,6-dimethyl-1,4-phenylene ether)		30-40	40-50	25-35	35-45	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated						219136-76-2	N/A
Polystyrene, High Impact polystyrene		40-50	30-40	30-40	25-35	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	0-3	0-3	66070-58-4 and/or Confidential	N/A

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Elastomer	0-3	0-3	0-3	0-3	Confidential	N/A
Aromatic phosphate ester	5-15	5-15	5-15	3-10	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Mineral)	5-15	5-15	15-25	15-25	14807-96-6 and/or 12001-26-2	238-877-9 and/or N/A
Additives (Stabilizer etc.)	<3	<3	<3	<3	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)	<1	<1	<1	<1	Confidential	Registered
Colorant	0-6	0-6	0-6	0-6	See Appendix	See Appendix
Total	100	100	100	100	-	-

Product Name: Z352V, Z703V

Components	Product Name	Contents[wt%]		CAS No.	EINECS No
		Z352V	Z703V		
Poly(2,6-dimethyl-1,4-phenylene ether)		25-35	40 - 50	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated				219136-76-2	N/A
Polystyrene, High Impact polystyrene		30-40	10 - 20	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0 - 3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	-	Confidential	N/A
Aromatic phosphate ester		5-15	5 - 15	181028-79-5 or 5945-33-5	425-220-8
Inorganic filler (Mineral)		15-25	25 - 35	65997-17-3 and/or 1318-59-8	266-046-0 and/or 215-285-9
Additives (Stabilizer etc.)		<3	-	Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1	<3	Confidential	Registered
Colorant		0-6	<1	See Appendix	See Appendix
Total		100	0-6	-	-

Product Name: X8610, C443V

Components	Product Name	Contents[wt%]		CAS No.	EINECS No
		X8610	C443V		
Poly(2,6-dimethyl-1,4-phenylene ether)		50-60	35-45	25134-01-4	N/A
Poly(2,6-dimethyl-1,4-phenylene ether), maleated				219136-76-2	N/A
Polystyrene, High Impact polystyrene		10-20	5-15	9003-53-6 and/or 9003-55-8	N/A
Styrenic Elastomer		0-3	0-3	66070-58-4 and/or Confidential	N/A
Elastomer		0-3	0-3	Confidential	N/A
Aromatic phosphate ester		10-20	10-20	181028-79-5 or 5945-33-5	425-220-8
Carbon fiber		5-15	5-15	7440-44-0	231-153-3
Inorganic filler (Glass fiber, Glass flake, Mineral)		-	15-25	65997-17-3 and/or 14807-96-6 and/or 12001-26-2	266-046-0 and/or 238-877-9 and/or N/A
Additives (Stabilizer etc.)		<3		Confidential	Registered
Petroleum hydrocarbon oil(Mineral oil)		<1		Confidential	Registered
Colorant		0-6		See Appendix	See Appendix
Total		100		-	-

[Appendix] Colorant

Component	Content[wt%]	CAS No.	EINECS No.
Carbon Black	0 - 3	1333-86-4	215-609-9
Titanium oxide (IV)	0 - 5	13463-67-7	236-675-5
Iron oxide	0 - 5	1309-37-1	215-168-2
Nickel compounds	0 - 3	Registered	Registered
Others	0 - 5	Registered	Registered
Total	0 - 6		

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Revised Issue: Nov. 06, 2017

- Additives don't include components influencing hazard classification.
- All of ingredients are listed on TSCA, EINECS (ELINCS), ENCS (JPN), ISHL (JPN), IECSC (CHN) inventories.
- These ingredients are corresponding to the REACH regulations.
- These products do not contain Substances of Very High Concern (SVHC) concentration above 0.1wt%

4. First aid measures

Necessary first-aid measures by relevant routes of exposure

Swallowed.	If the pellet was swallowed accidentally, vomit immediately and get medical attention/advice if any abnormality occurs.
Eyes.	<ul style="list-style-type: none">• 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.
Protection who gives the first aid.	Those who suffer from any abnormality should get medical attention.
Indication of immediate medical attention and special treatment needed, if necessary	No information

WARNING :Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention at once, **even if symptoms develop at a later time.**

For skin contacts with condensate, immediately wash thoroughly with soap and water. If irritation develops, seek medical attention.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	Spraying water and other extinguisher can be used.
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.

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures	Clean up the floor immediately because it may be slippery if pellet or powder remains.
Emergency measures and protective equipment	Wear protective equipment (safety glasses, dust mask, and as necessary, respirator) to avoid contact with dust, inhalation.
Environmental precautions	Collect all leakage on the water surface such as drain system considering adverse effect to avian species and fish.
Methods and materials for containment and cleaning up	Sweep up or clean with vacuum cleaner, collect and dispose of.
Prevention of secondary disaster	None.

7. Handling and storage

< Precautions for safe handling >

Engineering measures	Wear eye protection, heat-resistant gloves, long-sleeved work clothing for burn prevention when handling melted resin. Avoid breathing gases generated from the melted resin.
Local exhaust, total ventilation	Use effective local exhaust at the generating point of gases because gasses are generated when handling melted resin using extruder or injection molding machine. Perform total ventilation by ventilation fan at indoor or working area operating above procedure.
Cautions to fire	This resin in pellet condition is flame-retardant resin component and does not ignite or explode at room temperature. However gases may be generated if fire occurs in neighborhood and firefighting activity may become difficult. Therefore keep working area neat and tidy, do not use fire. <ul style="list-style-type: none"> • Do not use heater with open flame. (Stove, open fire, etc.) • Do not carry match, lighter. No smoking. • Ground facilities and equipments (extruder, molding machine, air-conveying line, bag filters, etc.) in order to prevent static discharge. • Use safe non-sparking tools. Avoid generation or approach of any other ignition sources.
Precautions for safe handling	<ul style="list-style-type: none"> • Do not eat or drink when using this product • If leaked on the floor, remove and keep cleaned up. If leakage is left the floor becomes slippery and may cause a fall. • Determine and keep proper working process.
Storage	Be stored at places where meet appropriate storage conditions as follows. <ul style="list-style-type: none"> • 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

Facility measures	See "7. Handling and storage" for facility measures.
Administrative level, allowable limit	Gases are generated from melted resin but administrative level and allowable limit are not established.
<Dust>	

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Allowable limit for this resin is not established in AGCIH. However below values are applicable for dust.

Airborne Exposure Limit (reference 2, 3)

OSHA PEL	3.5 mg/m ³ (Carbon black) 15mg/m ³ (Total dust/Titanium oxide(IV)) 15 mg/m ³ (Total PNOR) 5 mg/m ³ (Respirable PNOR) *PNOR: Particulates not otherwise regulated
ACGIH TLV-TWA	0.025 mg/m ³ (Respirable fraction/ Quartz) 3 mg/m ³ (Inhalable fraction/ Carbon black) 10 mg/m ³ (Titanium oxide (IV)) 5 mg/m ³ (Respirable fraction/ Iron oxide) 3 mg/m ³ (Respirable PNOS) 10 mg/m ³ (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 rising 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 chemical properties

Appearance (physical state, color, etc.)	Plastic solid. Yellow – brown, or colored pellet
Odor	None
pH	Not applicable
Melting point	These products don't exhibit a sharp melting point.
Decomposition temperature	>300 deg C
Ignition point	>400 deg C
Flash point	>450 deg C
Explosion limit Upper / lower	No data Precautionary measures for static discharge are necessary if handled as powder
Specific gravity	1.05 - 1.40
Solubility(ies)	
Water	Insoluble
Other solvent	Soluble in organic solvent (Chloroform, Toluene, Acetone (Ketones) etc)
Partition coefficient: <i>n</i> -octanol/water	No data

10. Stability and reactivity

Chemical stability	Stable at room temperature as far as stored protected from direct sunlight, away from fire or heat source.
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Reactivity	Not reactive under recommended conditions of handling, storage, processing and use. When heated to approximately 300 degree C to 400 degree C, the resin begins to decompose and emit decomposition gases. Immediately cool down the molten resins, if necessary.
Conditions to avoid	Direct sunlight, fire, heat source, and dust generation
Incompatible materials	None.
Hazardous decomposition	Black fume, gases such as CO ₂ , CO may be generated in combustion.
Hazardous polymerization	Will not occur.
Storage stability	Stable
Oxidizing property	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, and 4.

The classification of Carbon Black is referred to the information from supplier. (Reference 5)

	Resin Filler Others	Aromatic phosphate ester	Quartz	Petroleum hydrocar- bon oil (Mineral oil)	Carbon black	Titanium oxide	Iron oxide	Classification of Products
content	≥66.7wt%	≤2wt%	<0.3wt%	≤5wt%	0-3wt%	0-5wt%	0-5wt%	
Skin corro- sion/irritation	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Not classified	Category 2	Classification not possible ¹⁾
Serious eye damage/eye irritation	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category 2B	Category 1	Classification not possible ²⁾
Carcinogenicity	Classification not possible	Classification not possible	Category 1A	Classification not possible	Category 2	Category 2	Not classified	Classification not possible ³⁾
Specific target organ toxicity - Single exposure	Classification not possible	Classification not possible	Category 1 (respiratory)	Classification not possible	Classification not possible	Classification not possible	Category 3 (respiratory tract irritation)	Classification not possible ⁴⁾
Specific target organ toxicity - Repeated ex- posure	Classification not possible	Classification not possible	Category 1 (respiratory organs, kidneys)	Classification not possible	Category 1 (Lung)	Classification not possible	Category 1 (respiratory organs)	Classification not possible ⁵⁾

Note;

- 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.
- 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.
- The Toxicological information of Quarts, Carbon black and Titanium oxide has been evaluated under the conditions of inhalation exposure.
The products cannot be classified because these 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.
- The Toxicological information of Quarts and Iron oxide has been evaluated under the conditions of inhalation exposure.
The products cannot be classified because these 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.
- The product contains less than 0.3wt% of Quartz, less than 3wt% of Carbon black and less than 5wt% of Iron oxide, which is classified as Category 1 (respiratory), but 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.
The product contains less than 3wt% of Carbon black which is classified as Category 1(lung). According to the GHS classification criteria for mixtures, the classification of products is specified as "Classification not possible".
The product contains less than 0.3wt% of Quart which is classified as Category 1(kidneys). According to the GHS classification criteria for mixtures, the classification of products is specified as "Classification not possible".

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 Revised Issue: Nov. 06, 2017

[Appendix] The classification of Petroleum hydrocarbon oil (Mineral oil)

The classification of petroleum hydrocarbon oil is referred to the below. (reference 1, a), and b))

Hazard class	According to Ref.1	Classification of mineral oil contained in these product (Ref.a), b))
Acute toxicity (inhalation: dust, mist)	Category 4	Classification not possible ^{a),b)}
Skin corrosion / irritation	Category 3	Classification not possible ^{b)}
Serious eye damage / eye irritation	Category 2B	Classification not possible ^{b)}
Germ cell mutagenicity	Category 2	Classification not possible ^{a), b)}
Carcinogenicity	Not classified (Highly refined oil)	Classification not possible ^{a), b)}
Specific target organs/systemic toxicity following single exposure	Category 2 (lung)	Classification not possible ^{a), b)}
Specific target organs/systemic toxicity following repeated exposure	Category 1 (lung, skin)	Classification not possible ^{a), b)}
Aspiration hazard	Category 2	Classification not possible ^{a), b)}

Reference;

- a) The information from supplier (SDS)
- b) EC European Commission, European Chemical Bureau "IUCRID", (2000)

12. Ecological information

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

The classification of Carbon Black is referred to the information from supplier. (reference 5)

	Resin Filler Others	Aromatic phosphate ester ^{Ref.5)}	Quartz	Petroleum hydrocarbon oil (Mineral oil)	Carbon black	Titanium oxide	Iron oxide	Classification of Products
content	≥66.7wt%	≤22wt%	<0.3wt%	≤5wt%	0-3wt%	0-5wt%	0-5wt%	
Hazardous to the aquatic environment (acute)	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Not classified	Classification not possible	Classification not possible	Classification not possible
Hazardous to the aquatic environment (chronic)	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible

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. Transportation information

<International regulations>

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

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Packing group	Not restricted
Environmental hazards	Not restricted
Transport in bulk according to Annex II of MARPOL 73/78 and IBC code	Not restricted
Special safety precautions and conditions during transport	Do not handle roughly and keep dry not to break packaging bag. If the bag is broken and pellet is spilt, pay attention not to fall by slippery floor. If transported by air-conveying line take prevention measures against static discharge.
<U.S.A>	
U.S. Department of Transportation(D.O.T)	Not restricted
<Canada>	
Canadian T.D.G. Information	Not restricted

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>																						
OSHA	These products are not hazardous under 29 CFR 1910.1200.																					
TSCA	All components on TSCA.																					
40 CFR 799, Subparts 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, Subpart B	Not Applicable																					
CERCLA/ SUPERFUND (40 CFR 117,302)	Not Applicable																					
SARA TITLE III																						
Section 302 (40CDR355)	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):	None present or none present in regulated quantities.																					
State regulations																						
California Proposition 65	These products may contain the following materials.																					
	<table border="1"> <thead> <tr> <th>Name</th> <th>CAS No.</th> <th>Content (wt%)</th> </tr> </thead> <tbody> <tr> <td>Carbon Black</td> <td>1333-86-4</td> <td>0 - 3</td> </tr> <tr> <td>Titanium oxide</td> <td>13463-67-7</td> <td>0 - 5</td> </tr> <tr> <td>Nickel compounds</td> <td>-</td> <td>0 - 5</td> </tr> <tr> <td>Quartz</td> <td>14808-60-7</td> <td>0 - 0.3</td> </tr> <tr> <td>Toluene</td> <td>108-88-3</td> <td><0.1</td> </tr> <tr> <td>Styrene</td> <td>100-42-5</td> <td><0.1</td> </tr> </tbody> </table>	Name	CAS No.	Content (wt%)	Carbon Black	1333-86-4	0 - 3	Titanium oxide	13463-67-7	0 - 5	Nickel compounds	-	0 - 5	Quartz	14808-60-7	0 - 0.3	Toluene	108-88-3	<0.1	Styrene	100-42-5	<0.1
Name	CAS No.	Content (wt%)																				
Carbon Black	1333-86-4	0 - 3																				
Titanium oxide	13463-67-7	0 - 5																				
Nickel compounds	-	0 - 5																				
Quartz	14808-60-7	0 - 0.3																				
Toluene	108-88-3	<0.1																				
Styrene	100-42-5	<0.1																				
Note ; Refer to any other federal, state and local regulations.																						
Canada																						
WHMIS	Not Applicable																					

EU

1272/2008 Annex VI Table-3.1	Not classified
1272/2008 Table-3.2	Not classified
REACH SVHC	None present or none present in regulated quantities.
REACH Annex XIV	None present or none present in regulated quantities.
REACH Annex XVII	None present or none present in regulated quantities.
DIRECTIVE 2011/37/EU (ELV)	None present or none present in regulated quantities.
DIRECTIVE 2011/65/EU (RoHS)	None present or none present in regulated quantities.

China

Limited toxic chemical substances for export	None
Prohibited cargo list for import and export	None
General rule for classification and hazard communication of Chemicals (GB.13690)	None present or none present in regulated quantities.
List of Dangerous Goods	None present or none present in regulated quantities.
List of Hazardous Chemicals	None present or none present in regulated quantities.

Korea

Prohibited or regulated toxic substances	None
Toxic substances	None present or none present in regulated quantities.
Substances requiring pre-patration for accidents	None present or none present in regulated quantities.

16. Other information

Update history: Date of issue: Apr. 01, 2015
 Date of revision: Nov. 06, 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.
Refer to "XYRON Technical information" for additional guidance and information.

Note;

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

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Responsibility for compliance with applicable all national and local regulations concerning dissemination of the SDS and sale and use of the material to which it refer 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, (2017)
- 3) ACGIH, "TLVs, and BEIs® Based on the Documentation of the Threshold Values for Chemical Sub-stances and Physical Agents & Biological Exposure Indices", (2017)
- 4) IARC Monographs (Vol. 1-95, 29 Nov. 2006)
- 5) (EU)1272/2008(CLP) <http://echa.europa.eu/information-on-chemicals>
- 6) The information from the supplier. (SDS) (revised on 02 Jun, 2016)