

1.1

BP-6360 (1/7)

Safety Data Sheet

Revision number: E Date of revision: May 1, 2018

1. Identification of the substance / mixture and company / undertaking

Product identifier Aluminium paste BP-6360

Relevant identified uses of the substance or mixture and uses advised against Use as pigment for paints / inks / coatings only.		
Manufacturer	Toyo Aluminium K.K.	
Represented in the EC	Toyal Europe S.A.S.U.	
	Usine du Pont-du- Roy, Route de Lescun, 64490 Accous, France	
	TEL: +33 (0)5 59 983 535, FAX: +33 (0)5 59 983 536	
Emergency Phones	+33 (0)5 59 983 556 (Toyal Europe S.A.S.U. Accous FR)	
	Available 9:00 – 17:00 hours normal business days local time	
	ORFILA number: +33(0) 1 45 42 59 59	
	Use as pigment for paints / inks / o Manufacturer Represented in the EC	

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC 1272/2008 (CLP)

Flam Solid 1	H228 Flammable solid
Skin Irrit2	H315 Causes skin irritation.
STOT SE3	H336 May cause drowsiness or dizziness.
Aquatic Chronic2	H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Label In Accordance With (EC) No.1272/2008



Danger Hazard statements

H228 Flammable solid

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with applicable regulations.

2.3 Other hazards

PBT and vPvB Substances: None



3. Product composition / information

3.1 Substal		ot relevant			
3.2 Mixture	S				
Chemical Name (Reach Number)	Composition (WT%)	CAS No.	EC No.	INDEX No.	Classification (EC 1272/2008)
Aluminium powder (stabilized) (01-2119529243-45-XX XX)	46.5-50.0	7429-90-5	231-072-3	013-002-00-1	Flam Sol 1, H228 Water-react 2, H261
Oleic acid*	0-1	112-80-1	204-007-1	NC	NC
Kerosine (petroleum), hydrodesulfurized (01-2119462828-25-XX XX)	42.0-47.0	64742-81-0	265-184-9	649-423-00-8	Flam Liq 3, H226 Skin Irrit 2, H315 STOT SE3, H336 Asp Tox 1, H304 Aquatic Chronic2, H411
Acrylic acid-styrene	5.5-7.5	25085-34-1	Polymer	NC	NĊ

*Not registered on REACH: Annex V

** Not registered on REACH: Polymer

4. First-aid measures

4.1 Description of first aid measures General notes: In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately and launder thoroughly before reuse. Inhalation: Move victim to fresh air and keep at rest and get medical attention. Skin contact: Remove contaminated clothing/shoes, wash contaminated area with clean running water and soap. If inflammation or pain occurs, get medical attention/advice. Eye contact: Immediately rinse with plenty of clean running water for 15 minutes or more and get medical attention/advice. Not rub victim's eyes. In the case victim wears contact lenses, remove them if possible. Ingestion: Not force victim to vomit. If victim is consciousness, firstly rinse mouth with water. If victim feels badly, get medical attention/advice. Self-protection of the first aider: In case of inhalation, first aid provider should wear protective mask, in case of skin contact, wear protective equipment such as rubber gloves. Wear protective glasses if necessary. 4.2 Most important symptoms and effects, both acute and delayed No information available. 4.3 Indication of any immediate medical attention and special treatment needed No specific recommendations.

5. Fire-fighting measures

5.1	Extinguishing media		
	Suitable:	Powder extinguisher, carbon dioxide gas, dry sand, glass fiber clothing	
	Unsuitable:	Water, extinguishing media containing water, halogen extinguishing media	
5.2	Special hazards	arising from the substance or mixture	
	May generate irri	tative and/or toxic gas by fire.	
	Burn if intensively	/ heated.	
	May cause extremely dangerous explosion especially in closed environment (building, ware house etc.)		
	Package may explode by heat.		
	Dust or fume may form explosive mixture gas with air.		
	May ignite by fric	tion, heat, spark or flame.	
5.3	Advice for fire-f	ighters	
	Use powder ex	tinguisher or carbon dioxide gas at early stage of fire where only solvent is burning.	
	At the final stag	e of fire, aluminum powder will ignite and burn with white light with releasing large	
	heat. Try smoth	nering extinguishment by covering the origin of fire by dry sand, glass cloth at this	
	stage of fire. Co	ontinue smothering extinguishment until aluminum get cold because inside may be	
	still burning with	nout flame even when it seems to be extinguished.	
	Treat or transpo	ort burned aluminum powder after confirming the inside temperature did not rise	



after one day. Product that is not burning should be removed promptly to safe place.

<u>6</u> . Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures Wear appropriate protective equipment (see 8. Exposure control/personal protection) and avoid contact with eye/skin and inhalation of gas/dust. If in doors, adequately ventilate until processing is complete. Avoid flowing into drainage, sewage or the basement and other closed places.
6.2	Environmental precautions
	Do not release leakage to river or sewage directly.
6.3	Methods and materials for containment and cleaning up
	Stop leakage, if safe to do so. When leaked from the package wipe with cloth (waste cloth) and store in
	sealed package where no water, acid or alkali exists. Dispose of as industrial waste.
	Use equipment that do not cause spark.
6.4	Prevention of secondary disaster
	Refer to '8. EXPOSURE CONTROLS/PERSONAL PROTECTION.'

7. Handling and storage

7.1

7.2

Precautions for safe handling

Install equipment described in '8. EXPOSURE CONTROLS/PERSONAL PROTECTION' for local exhaust/total ventilation. Do not handle until all the safety precautions have been read and understood. Prohibit using high temperature material, spark or fire in surrounding area. Do not eat, drink or smoke when using this product. Wash the hands thoroughly after handling. Avoid swallow and contact with skin. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapor, spray. Install ventilation for exhaust to keep the concentration in the air below the exposure limit. Avoid release to the environment. In case package swells by abnormal inner pressure: -Package with degassing bulb on lid; Loosen the bulb gradually. Open after reducing pressure to the atmosphere pressure. -Package without degassing bulb on lid; Hold the lid so that it will not fly and decrease pressure by gradually loosening handle lever and open. Conditions for safe storage, including any incompatibilities In the store room, install the day lighting, lighting, and ventilating equipment needed for storing or handling the product. Apply the fireproof structure to walls, pillars and floors of the storage room. Use noncombustible material for beams. For floors of the storage room, apply a structure that prevents water influx/infiltration. Store away from ignition sources such as heat, spark or fire.-No smoking. Store away from oxidizing agent. Store in sealed container at fixed place where protection from light and ventilation are adequate and temperature (40) and humidity are appropriate.

7.3 Specific end use(s) None in particular



8.1 Control parameters

8.1	Control parameters					
	Aluminium					
		TLV (ACGIH)	1mg/m3 (respirable fraction)			
		PEL (OSHA)	15mg/m3 (total dust)			
			5mg/m3 (respirable fraction)			
		VME	10mg/m3 (metal)			
			5mg/m3 (powder)			
		OEL(F)	LTE: 10mg/m3 (inhalable aerosol)			
		OEL (F)	LTE: 5mg/m3 (respirable aerosol)			
		OEL (DFG)	LTE: 4mg/m3 (inhalable aerosol)			
		OEL (DFG)	LTE: 1.5mg/m3 (respirable aerosol)			
		OEL (UK)	LTE: 10mg/m3 (inhalable aerosol)			
		OEL (UK)	LTE: 4mg/m3 (respirable aerosol)			
	Kerosine (petroleum),	Kerosine (petroleum), hydrodesulfurized				
		TLV (ACGIH)	100ppm			
		PEL (OSHA)	500ppm			
• •	F	OEL (Belgium)	LTE : 200mg/m3			
8.2	Exposure controls		le striss 1/ vestile tie sulis state en viene ent			
Enginee	ering controls:		lectrical/ventilating/lighting equipment.			
			t/gas is generated at high temperature install ventilation			
			concentration of air pollutant below administrative			
		level/acceptable conce				
		•	nere total ventilation is installed.			
_		General proper ventila	tion is good for control the concentration in the air.			
Persona	al protective equipment:					
	Respiratory organ:		ot adequate, wear appropriate respiratory protection.			
			ory protective equipment as required.			
	Hand:	Use personal protectiv				
	Eye:	Wear appropriate eye	•			
	Skin and body:	Wear appropriate face	•			
		•	c protective clothing and protective mask as required.			
Environ	mental exposure controls:	Not available.				

9, Physical and chemical properties

9.1 Information and chemical prope	erties
Appearance	Silver–white solid (paste)
Odour	Petroleum
Odour threshold	N.A.
Ph	N.A.
Melting point/freezing point	N.A.
Initial boiling point and boiling range	130 °C (Kerosine (petroleum), hydrodesulfurized)
Flash point	40-45 °C (Kerosine (petroleum), hydrodesulfurized)
Evaporation rate	N.A.
Flammability	UN Class 4.1
Flamm. or expl. Limits	lower:4.9% upper: 0.8% (Kerosine (petroleum), hydrodesulfurized)
Vapour pressure	ca. 5 mmHg at 20 °C (Kerosine (petroleum), hydrodesulfurized)
Vapour density	N.A.
Relative density	1.2 (calculated)
Solubility	Insoluble
Partition coefficient: n-octanol/water	N.A.
Auto-ignition temp.	Ca. 245 °C (Kerosine (petroleum), hydrodesulfurized)
Decomposition temp.	N.A.
Viscosity	N.A.
Explosive Properties	N.A.
Oxidising Properties	N.A.
* This product is not classified to H261 by inter	nal test.
(Test: N5 Transport of dangerous goods- Man	ual of Tests and Criteria)
*This preduct is pat alogatical to LICO 4 by ACT	N D 4250 00

*This product is not classified to H304 by ASTM D 4359-90.



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10. Stability and reactivity

- **10.1 Reactivity** Stable under normal conditions.
- **10.2** Chemical stability Stable in air or under light shielded condition.
- 10.3 Possibility of hazardous reactions
 - React with water, acid, alkali, oxidizing agent metal oxide, halogen compound and generate hydrogen gas. Heat accelerates the reaction. Sealed container elevates inner pressure and may burst or the content may blow out and it is especially dangerous.

10.4 Conditions to avoid

Organic solvent in the product may evaporate when temperature is elevated. Avoid contact with flame, spark, high temperature material and heating.

10.5 Incompatible materials

Avoid contact with water, acid, alkali, oxidizing agent (peroxide, sulfuric acids etc), metal oxides (iron oxide etc.), and halogen compounds (chlorine carbon hydrides.)

10.6 Hazardous decomposition products May generate hydrogen gas.

<u>11. Toxicological information</u>

11.1 Information on toxicological effects

Toxicological information of the mixture:

H315 Category 2 is more than 10% and classified as Category 2.

H336 Category 3 (drowsiness or dizziness) is more than 20% and classified as Category 3.

Toxicological information on the main components of this product;

Kerosine (petroleum), hydrodesulfurized

LD50 (Oral)	Rat >5000mg/kg
LD50 (Inhalation)	Rat >5.28mg/l
LD50 (Dermal)	Rabbit >2000mg/kg

12. Ecological information

12.1 Toxicity

	Kerosine	e (petroleum), hydrode	sulfurized	
	LC50	Crustaceans	48H	0.42-2.3mg/L
12.2	Persiste	nce and degradabili	ty	
	No inform	nation at this point.		
12.3	Bio accu	umulative potential		
	No inform	nation at this point.		
12.4	Mobility	in soil		

- No information at this point.
- 12.5 Results of PBT and vPvB assessment
- PBT and vPvB Substances: None
- 12.6 Other adverse effects No information at this point.

13. Disposal considerations

13.1

Waste treatment methods Waste to be treated as controlled waste.

Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.



14. Transport information

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14.1	UN number		
	ADR: 1325		
	IATA: 1325		
	IMDG: 1325		
14.2	UN proper shipping name		
	ADR: Flammable solid, organic, N.O.S.		
	(Aluminium Powder and Petroleum Mixture)		
	IATA: Flammable solid, organic, N.O.S.		
	(Aluminium Powder and Petroleum Mixture)		
	IMDG: Flammable solid, organic, N.O.S.		
	(Aluminium Powder and Petroleum Mixture)		
14.3	Transport hazardous class (es)		
	ADR: 4 / Hazard identification number: 40		
	IATA: 4		
	IMDG: 4		
14.4	Packing group		
	ADR: II		
	IATA: II		
	IMDG: II		
14.5	Environmental hazards		
	ADR: Environmental Pollutant		
	IMDG Marine pollutant:		
14.6	Special Precaution for User		
	ADR-Tunnel restriction code: (E)		
	IMDG-EMS: F-G, S-G		
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	Not applicable		

15. Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Directives 98/24/EC (Risks related to chemical agents at work)
	Directives 2000/39/EC (Occupational exposure limit values)
	Where applicable, refer to the following regulatory provisions:
	Directives 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
	Regulation (EC) nr 648/2004 (detergents.)
	1999/13/EC (VOC directive.)
	Seveso category: 7a (CAS.7429-90-5)
45 0	Chaminal Defety Assessment Nega

15.2 Chemical Safety Assessment: None



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16. Other information

- Full text of phrases referred to in Section3.
- H226 Flammable liquid
- H228 Flammable solid
- H261 In contact with water releases flammable gases
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects

Main bibliographic sources

Annex VI of Regulation 1272/2008

EAPA European Aluminium Particulate Association

ECHA European Chemicals Agency

ESIS Existing Chemical Substances Information System

Information on Hazardous Chemicals and Occupational Diseases

Revision contents: REACH information was added in Section 3.

Format and contents of SDS prepared and approved by: Quality Assurance Dept., TOYO ALUMINIUM K.K., JAPAN

Disclaimer:

This Safety Data Sheet provides reference information to ensure the safe handling of the product. The descriptions herein are based on the currently available information and data but no guarantee is given for its contents, or the product's physic-chemical properties, risk or hazard. The precautions herein are for normal handling. If you use this product under the special conditions, take safety measures appropriate for the special use and usage.