

PlayFoam Material Safety Data Sheets (MSDS)

To Whom It May Concern:

Thank you for your interest in our PlayFoam line of products. Please find the MSDS for the PlayFoam chemical ingredients on the following pages. PlayFoam is fully compliant with worldwide safety standards including ASTM F963, ASTM D4236 and EN-71. It's completely safe for children of all ages. PlayFoam is:

- NON-TOXIC
- NON-ALLERGENIC
- Contains no gluten, proteins, organic materials or other allergens.
- Contains no phthalates
- Contains no latex
- · Contains no hazardous or toxic substances.

We have removed the names of the ingredients from the following pages. The ingredient names constitute the formula so they are a trade secret. Please note that MSDS documents are intended by OSHA for worker safety at manufacturing plants and are not intended for consumers.

Educational Insights

SECTION I -PRODUCT IDENTIFICATION HANUFACTURER'S NAME MIPPON PETROCHEMICALS CO., LTD. ADDRESS 3-1, Uchisaiwaicho 1-chome, Chiyoda-ku, Tokyo, Japan CHEMICAL NAME AND SYNONYMS TRADENAME AND SYNONYMS CAS-NO FORMULA

SECTION II - HAZARDOUS	INGREDIENTS		
PAINTS. PRESERVATIVES AND SOLVENTS		×	TLV (Units)
PICHENTS			w 4⊈ 53
CATALYST			
VEHICLE			
SOLVENTS			
ADDITIVES			
OTHERS			
ALLOYS AND METALLIC COATINGS		Х	TLV (Units)
BASE HETAL			
ALLOYS			
HETALLIC COATINGS			
FILLER HETAL PLUS COATING OR COREFLUX	naga ga aga an an	*	TLV (Units)
OTHERS			
HAZARDOUS HIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		*	TLV (Units)

SECTION III - PHYSICAL	beers 1.65
BOILING POINT (*F)	N/A
VAPOR PRESSURE (mmllg)	· N/A
VAPOR DENSITY (AIR =1)	N/A
SOLUBILITY IN WATER	Insoluble
SPECIFIC GRAVITY (H2 0 =1)	0. 923
PERCENT, VOLATILE BY VOLUME (%)	0.0
EVAPORATION RATE (=1)	N/A
APPEARANCE AND ODOR White to pale yellow , and no odor	

SECTION IV · FIRE AND EXPLOSION HA	ZARO DATA		A MANAGEMENT OF MICE
FLASH POINT (Hethod Used) COC 248 °C (JIS K2265)		- Gelder Gerkelt (1994) - Gelder	
FLAHHABLE LIHITS	Lei		Vet
EXTINGUISHING HEDIA Apply correspondingly to a fire occured	(ex)	Foam, CO ₂	Chemical . Dry Power
SPECIAL FIRE FIGHTING HETHOD Use large amounts of water or foa	M.		,
UNUSAL FIRE AND EXPLOSION HAZARDS When is exposed to extra and burn with thermal decomposi		will me	It like liquid

		SECTION V - HEALTH HAZARD DATA
EFFECTS OF OVEREXPOSURE		
	N/A	
THRESHOLD LIHIT VALUE	N/A	
EMERGENCY AND FIRST AID	PROCEDURES	Skin contact: Wash with soap and water after wiping off with solvent such as normal paraffin .
		Eye contact: Flush with large amounts of water.Obtain medical attention.
		Ingestion: induce vomiting and obtain medical attention.

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SECTION VI - REACTIVITY DATA								
STABILITY	UNSTABLE		CONDITIONS TO AVOID Avoid storage at high temperature in the air					
	STABLE	0	AVOIG SCOI	Avoid Storage at might temperature in the dir				
INCOMPATIBILIT	Y (Materia	ls to av	roid)	N/A				
HAZARDOUS DECO	HPOSITION PI	RODUCTS	Burning	can produce	CO₂ or C	0		
HAZARDOUS MAY OCCUR CONDITIONS TO AVOID					Address William Control of the Contr			
POLYMERIZATION		ILL NOT	occur o				h	
irotto de responsaciones de la companya de la comp	dental de la companya		SECTION 1	/I · SPILL OR	LEAK PROCE	DURES	anniversiteriteriteriteriteriteriteriteriteriter	
STEPS TO BE TA	Scoop u	p in cas	TERIAL IS LEAF se of a large of te immersed no	quantity.		of a small (quant i ty.	
WASTE DISPOSAL	WASTE DISPOSAL HETHOD Incinerate as it is, or as it is diluted with oil.							
<u>ng app pangganaganag sa ang kantanan-ang pangg</u> a an amalah da nahin iada an indonésia			SECTION VI - S	SPECIAL PROTE	CTION INFO	HATION		
RESPIRATORY PR	OTECTION (Specify	type)					
VENTILATION	LOCAL EXHA	UST	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SPECIAL	and the second s	
•••	MECHAN I CAL	(General)	nagaring and an angular department of the language of the lang	ner te v v (en a men vinde te en altant side)	OTHER	yearna karran da raha da karran da karra	
PROTECTIVE GLO	PROTECTIVE GLOVES None EYE PROTECTION None					None		
OTHER PROTECTIVE EQUIPMENT None								
SECTION IX · SPECIAL PRECAUTIONS								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING								
No special precaution required								
OTHER PRECAUTI	OTHER PRECAUTIONS							

Hideo Nakae, Hanager Specialty Products Sales Section Specialty Products Division.

MATERIAL SAFETY DATA SHEET

	SEC	ITON I-PRODUCT LIDENTLEICAT	LON CORP.				
MANUFACTURER'S NAME			EMERGENCY TELEPHONE NO.				
NIPPON PETROCHEMICALS COMPANY LIMITED			(TOKYO 81-3) 3501 7327				
ADDRESS							
F/5 Saiwai Bldg.	F/5 Saiwai Bldg., 3-1 Uchisaiwaicho l-chome, Chiyoda-ku, Tokyo 100 Japan						
CHEMICAL NAME AN	D SYNONYMS	TRADENAME AND SYNONYMS	CHEMICAL FAMILY				
CAS-NO.	FORMULA						

SECTION II HAZARDOUS INGREDIENT PAINTS. PRESERVATIVES AND SOLVENTS	%	TLY (Units)
PIGMENTS		
CATALYST		
АĿНІСГЕ		
SOLVENTS		
ADDITIVES		
OTHERS		
ALLOYS AND METALLIC COATING	%	TLY (Unīts)
BASE METAL		
ALLOYS		
METALLIC COATINGS		e de la companya de l
FILLER METAL PLUS COATING OR CORE FLUX	No. (ambridge Arthur Market Art Principle	
OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLY (Units)

SECTION III PHYSICAL DATA	
BOILING POINT (* F)	N/A
VAPOR PRESSURE (mmHg)	N/A
VAPOR DENSITY (AIR=1)	N/A
SOLUBILITY IN WATER	Insoluble
SPESIFIC GRAVITY (H ₂ O =1)	0. 830
P' 'ENT, VOLATILE BY VOLUME (%) 2mmHg×230°C	0.0
EVAPORATION RATE (=1)	N/A

SECTION IV FIRE EXPLOSION HAZARD DATA		
FLASH POINT (Method Used: C O C) 1 3 6 °C (JIS K 2266)		
FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Apply correspondingly to a fire occured	(ex) Fo.	rm, Chemical Dry Power Water
SPECIAL FIRE FIGHTING METHOD Use large amounts of water or form.		
UNISAL FIRE AND EXPLOSION HAZARD Usally not fire and explosion hazard: High flash point and not eas	y flammab]	le.

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	SE	CTION VI HEALTH AND HAZARD DATA
EFFECTS OF OVEREX	POSURE N/A	
THRESHOLD LIMIT V	ALUE LD, mor	e than 21.575 g/Kg (Mouse, in case of HV-300)
EMERGENCY AND FIRE	ST AID PROCEDU	
S	Skin contact	Wash with soap and water after wiping off with solvent such as normal paraffin.
	Eye contact	Flush with large amounts of water. Obtain medical attention.
	Ingestion	Induce vomiting and obtain medical attention.

		S	ECTION	ZI REACTIVITY DATA
STABILITY	UNSTABLE		3	ONS TO AVOID
	STABLE	0	Avoid s	torage at high temperature (over 100°C) in the air.
INCOMPATIBILITY	(Materials	to avei	.d)	N/A
HAZARDOUS DECOMPO	OSITION PR	ODUCTS	Burr	ning can produce CO, or CO
HAZARDOUS POLYMERIZATION	MAY OCC	UR		CONDITIONS TO AVOID
POLIMERIZATION	WILL NOT	OCCUR	0	

SECTION VI SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE THIS MATERIAL IS LEAKED OR SPILLED

Scoop up in case of a large quantity.

Mop up with waste immersed normal paraffin in case of a small quantity.

WASTE DISPOSAL METHOD

Incinerate as it is, or as it is diluted with oil.

SECTION VI SPECIAL PROTECTION INFORMATION RESPIRATORY PROTECTION (Specify type)						
VENTILATION	LOCAL EXHAUST			SPECIAL		
	MECHANICAL (General)			OTHER		
PROTECTIVE GLOVES Use plastic or rubber glove to minimize skin contact.				ve grade industrial ses with side shield.		
OTHER PROTECTI	VE EQUIPMENT	Optional				

SECTION: IX SPECIAL PRECAUTION PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid to contact with water. Keep away from heat.

Avoid to turn upside down and incline it.

OTHER PRECAUTION

There is nothing of special mention.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT& COMPANY IDENTIFICATION

CHEMICL PRODUCT NAME:

NAME OF Manufacturer.

Hitachi Chemical Company, Ltd., Goi Works

ADDRESS:

14 Goi Minami-kaigan, Ichihara-shi, Chiba-ken 290-8567, Japan

TELEPHONE NUMBER:

+81-436-21-6141

FAX NUMBER:

+81-436-22-2236

2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE MIXTURE INGREDIENTS AND COMPOSITION:

CHEMICAL NAME	CHEMICAL NAME CHEMICAL FORMULA		

3. HAZARD INDENTIFICATION:

CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN: Not applicable FIRE & EXPLOSION HAZARDS

- 1. Combustible substance
- 2. Foaming Agents volatilize slowly.
- Volatilized vapors may cause fire or explosion by flame or other source of ignition at a certain Concentration.

HEALTH EFFECTS

Foaming agents may cause suffocation or anesthesia.

4. FIRST AID MEASURES

EYE CONTACT:

Irrigate immediately with water for at least 5 minutes: mechanical effects only.

SKIN CONTACT:

Wash off in flowing water or shower.

INHALATION:

Remove to fresh air.

If not breathing, give mouth-to-mouth resuscitation.

If breathing is difficult, give oxygen.

Call a physician.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL HAZARD

			Foaming agent	
	The state of the s			
APPEARANCE		Beads or Pellets	Liquid	Liquid
BOILING POINT (°C)		***	36.1	27.8
SPECIFIC GRAVITY (Water=1)		1,04	0.63	0,62
BULK DENSITY (kg/m³)		600		***************************************
GAS DENSITY (Air=1) (0°C)		*****	2.48	248
FLASH POINT (°C)		47~75	-40	-51
AUTOIGNITION TEMPERATURE (°C)		490	309	420
EXPLOSION LIMIT (VOL%)	UEL		8.3	8.3
	LEL	-	1.4	1,4
FLAMMABILITY		Combustible	Highly flammable	

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID)

Beads will expand and give off blowing agent starting at approximately 100°C.

Over 160°C, they will release oxides and combustible gases.

11. TOXICOLOGICAL INFORMATION

Not available.

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATION

Bury up or incinerate little by little

14. TRANSPORT INFORMATION

- 1. Load and unload in cool, well-ventilated place away from any source of ignition.
- 2. Keep loads away from sparks and flames.
- 3. Cover loads with sheet at the transport after due consideration to air permeability.
- 4. Provide a fire extinguisher in a transport car.
- Avoid the collision of drums, violent dropping from loading platform or rough handling in order not to prevent the spark generation.
- 6. Follow all regulation in your country

UN CLASS: 9 UN NUMBER: 2211

5. FIRE FIGHTING MEASURES

FIRE FIGHTING MEASURES: Use a large amount of water or extinguishing media.

Be careful not to inhale sooty smoke.

EXTINGUISHING MEDIA: Water, foam, or Dry chemical powder.

6. ACCIDENTAL RELEASE MEASURES

Shut off all source of ignition and immediately collect the spilled beads.

Collect the spilled beads as soon as possible to prevent from slipping up.

7. HANDLING AND STORAGE

HANDLING

- 1. Keep away form sparks and flame.
- 2. Be careful not to cause sparks by electrical charges or shock.
- 3. Open containers only in a well ventilated area.
- 4. Avoid breathing vapors.
- 5. Local exhaust ventilation is recommended while molding.
- 6. Ventilate a workroom during molding and keeping products.

STORAGE

- 1. Store in a cool, well-ventilated location.
- 2. Keep away from sunlight at storage.

8. EXPOSURE CONTROLS/PRESONAL PROTECTION

ager y heep a que ex just ja gall de greep i set i de lêt de se de la de p erson es que en commence de mente en m		Www.director
PEL	N/E	N/E
TLV		
JAPANESE INDUSTRIAL	N/E	300ppm
HYGIENE SOCIETY (2004)		880mg/m ³
ACGIH (2004)	N/E	600ppm
(TWA)		1770mg/m ³

N/E: Not Established

ENGNEERING MEASURES:

Prevent vapor stagnation by providing adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

Wear safety goggles and gloves.

15. REGURATORY INFORMATION

Hitachi Chemical Company is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

16. OTHER INFORMATION

The information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.