SAFETY DATA SHEET

Product identifier	Flexane 60L Hardener		
Other means of identification	Flexane out naruener		
SKU#	X0022		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier			
Manufacturer			
Company name Address	ITW Performance Polymer Bay 150 Shannon Industrial Estate Co, Clare, Ireland		
Telephone	Phone	363(61)771500	
E-mail	customerservice.shannon@	itwpp.com	
Emergency phone number	Emergency Number	44(0)1235 239 6	570
2. Hazard(s) identification	n		
Physical hazards	Not classified.		
Health hazards	Serious eye damage/eye ir	ritation	Category 2A
	Specific target organ toxicit exposure	y, repeated	Category 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Signal word Hazard statement	5	n. May cause dam	nage to organs through prolonged or repeated
•	Causes serious eye irritatio	n. May cause dam	nage to organs through prolonged or repeated
Hazard statement	Causes serious eye irritatio exposure.		
Hazard statement Precautionary statement	Causes serious eye irritatio exposure. Do not breathe mist/vapors If in eyes: Rinse cautiously	. Wash thoroughly with water for seve g. Get medical adv	nage to organs through prolonged or repeated ^y after handling. Wear eye protection/face protection eral minutes. Remove contact lenses, if present and vice/attention if you feel unwell. If eye irritation
Hazard statement Precautionary statement Prevention	Causes serious eye irritatio exposure. Do not breathe mist/vapors If in eyes: Rinse cautiously easy to do. Continue rinsin	. Wash thoroughly with water for seve g. Get medical adv	after handling. Wear eye protection/face protection eral minutes. Remove contact lenses, if present and
Hazard statement Precautionary statement Prevention Response	Causes serious eye irritatio exposure. Do not breathe mist/vapors If in eyes: Rinse cautiously easy to do. Continue rinsin persists: Get medical advic Not available.	. Wash thoroughly with water for sev g. Get medical adv e/attention.	after handling. Wear eye protection/face protection eral minutes. Remove contact lenses, if present and
Hazard statement Precautionary statement Prevention Response Storage	Causes serious eye irritatio exposure. Do not breathe mist/vapors If in eyes: Rinse cautiously easy to do. Continue rinsin persists: Get medical advic Not available.	. Wash thoroughly with water for sev g. Get medical adv e/attention.	after handling. Wear eye protection/face protection eral minutes. Remove contact lenses, if present and vice/attention if you feel unwell. If eye irritation

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Diethyltoluenediamine		68479-98-1	10-30%
Carbon Black		1333-86-4	0.10-0.99%
Other components below r	eportable levels		

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist/vapors. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissil	ble Exposure Limits (PEL) for Air	Contaminants (29 CFR 1910.1000)
Components	Туре	Value
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3

US. OSHA Table Z-3 Permis Components	ssible Exposure Limits (PEL) for Mine Type	ral Dusts (29 CFR 1910.1000 Value) Form
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit	t Values (TLV)		
Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
,	erous to Life or Health (IDLH) Values, a	as amended	
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	IDLH	1750 mg/m3	
,	o Chemical Hazards Recommended E	exposure Limits (REL)	
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3	
iological limit values	No biological exposure limits noted fo	r the ingredient(s).	
ppropriate engineering ontrols	Good general ventilation should be us applicable, use process enclosures, le maintain airborne levels below recom established, maintain airborne levels	ocal exhaust ventilation, or oth mended exposure limits. If exp	er engineering controls to posure limits have not been
dividual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Chemical respirator with organic vapo	or cartridge and full facepiece.	
Skin protection			
Hand protection	Wear appropriate chemical resistant	gloves.	
Other	Wear suitable protective clothing. Use	e of an impervious apron is rec	ommended.
Respiratory protection	Chemical respirator with organic vapo	or cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygie and before eating, drinking, and/or sn equipment to remove contaminants.		
9. Physical and chemical	properties		
ppearance	Liquid.		
Physical state	Liquid.		
Form	Liquid.		
Color	Black		
dor	Slight.		
dor threshold	Not available.		
Н	Not available.		
lelting point/freezing point	Not available.		
itial boiling point and boiling ange	Not available.		
lash point	Not available.		
vaporation rate	Not available.		
lammability (solid, gas)	Not applicable.		
pper/lower flammability or exp	plosive limits		
Explosive limit - lower (%)	Not available.		

Vapor pressure	<1 mm Hg
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.08 g/cm ³
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.08
10. Stability and reactivit	t y
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Information on toutestants of a	

Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
Carbon Black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation	Prolonged skin contact ma	y cause temporary irritation.
Serious eye damage/eye irritation	Causes serious eye irritatio	on.
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer	:
Skin sensitization	This product is not expected	d to cause skin sensitization.
Germ cell mutagenicity	No data available to indica mutagenic or genotoxic.	te product or any components present at greater than 0.1% are
Carcinogenicity	Risk of cancer cannot be e	xcluded with prolonged exposure.

Carbon Black (CAS 1333	3-86-4) 2B Possibly carcinogenic to humans.
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)
Not listed.	
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens
Carbon Black (CAS 1333	3-86-4) Known To Be Human Carcinogen.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

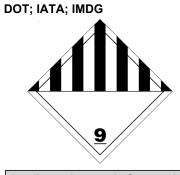
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

DOT	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 173, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	
Class	9
Subsidiary risk	-

Packing group	III
Environmental hazards	No.
ERG Code	9L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.



15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Toxic Substances Control A	Act (TSCA)
TSCA Section 12(b) Exp	port Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency relea	se notification
Not regulated. OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1001-1053)
Superfund Amendments and Re	authorization Act of 1986 (SARA)
SARA 302 Extremely hazard	dous substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
SARA 313 (TRI reporting) Not regulated.	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Carbon Black (CAS 1333-86-4) Diethyltoluenediamine (CAS 68479-98-1)

California Proposition 65



WARNING: This product can expose you to Carbon Black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Black (CAS 1333-86-4) Listed: February 21, 2003

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	07-25-2023
Version #	01
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.