HILLYARD
THE CLEANING RESOURCE℠
302 No. Fourth Street, Saint Joseph, MO 64502
Phone: 1-800/365-1555 http:/www.hillyard.com

Material Safety Data Sheet

Hillyard Para Product

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hillyard Para Product
Product Identifier	HIL29914, HIL29915, HIL29916, HIL29917, & HIL0029920
MSDS No.	0126
Other Means of Identification	Para Product
Product Family	para
Supplier	Hillyard, PO Box 909, St. Joseph, MO, 64501, Hillyard Clean Assist, 816 233 1321, http://www.hillyard.com
Emergency Contact Information	Hillyard (Chemtrec), 800 424 9300, 24hr
Use	Dry Deodorants

2. HAZARDS IDENTIFICATION

Potential Health Effects

Route of Exposure	Inhalation; skin contact; eye contact; ingestion.
Inhalation	Can cause severe irritation of the nose and throat.
Skin Contact	May cause mild irritation.
Eye Contact	May cause moderate to severe irritation.
Ingestion	Can irritate the mouth, throat and stomach.
Effects of Long-Term (Chronic) Exposure	Can cause dry, red, cracked skin (dermatitis) following skin contact.
Carcinogenicity	Possible carcinogen.
Teratogenicity / Embryotoxicity	No information was located.
Reproductive Toxicity	No information was located.
Mutagenicity	No information was located.

Potential Environmental Effects

Product and/or byproducts are not likely to bioaccumulate.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
1,4-Dichlorobenzene	106-46-7	100	p-Dichlorobenzene

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Move victim to fresh air. Call a Poison Centre or doctor if the victim feels unwell.
Skin Contact	Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap for 5

minutes. Call a Poison Centre or doctor if the victim feels unwell.

Eye Contact Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If irritation or pain persists, see a doctor.

Ingestion NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim rinse mouth with water. Call a Poison Centre or doctor if the victim feels unwell.

5. FIRE FIGHTING MEASURES

Flammable Properties Can ignite if strongly heated.

Suitable Extinguishing Media Small fire: carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.
Large fire: use flooding quantities of water spray or fog.

Unsuitable Extinguishing Media None known.

Specific Hazards Arising from the Chemical Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic halogenated compounds; very toxic carbon monoxide, carbon dioxide.

Protective Equipment and Precautions for Firefighters Firefighters should enter area wearing specialized protective equipment. (Bunker Gear will not provide adequate protection.).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions No special precautions are necessary.

Environmental Precautions Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods for Containment and Clean-up Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling Avoid repeated or prolonged skin contact with product or with contaminated equipment/surfaces. Only use where there is adequate ventilation. Avoid generating dusts.

Storage Store in an area that is: dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
1,4-Dichlorobenzene	60 mg/m3		450 mg/m3			

Engineering Controls Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Personal Protective Equipment (PPE)

Eye/Face Protection Wear chemical safety goggles.

Skin Protection Not required, if used as directed.

Respiratory Protection Not usually required when working with small quantities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Colourless white crystalline crystals.
Odour	Aromatic (1,4-Dichlorobenzene)
Odour Threshold	0.12 ppm (0.72 mg/m3) (1,4-Dichlorobenzene) Causes olfactory fatigue.
Molecular Formula	C6H4Cl12
Molecular Weight	147.00
Boiling Point	345 ºF (174 ºC)
Melting Point	127.6 ºF (53.1 ºC)
Freezing Point	Not applicable
Relative Density (water = 1)	1.2475 at 20 ºC (1,4-Dichlorobenzene)
Solubility in Water	0.079 g/L (Practically insoluble.)
Solubility in Other Liquids	Highly soluble in common organic solvents.
pH	Not applicable
Partition Coefficient, n-Octanol/Water	3.39 at 20 ºC (1,4-Dichlorobenzene)
Vapour Pressure	1.28 mm Hg (0.17 kPa) at 20 ºC
Saturated Vapour Concentration	1267 - 1681 ppm
Critical Temperature	765.5 ºF (407.5 ºC)
Vapour Density (air = 1)	5.08
Evaporation Rate	Not available
Flash Point	150.1 ºF (65.6 ºC) (closed cup) (1,4-Dichlorobenzene)
Lower Flammable/Explosive Limit	2.5% (1,4-Dichlorobenzene)
Upper Flammable/Explosive Limit	6.2% (1,4-Dichlorobenzene)
Auto-ignition Temperature	> 932 ºF (500 ºC)

10. STABILITY AND REACTIVITY

Chemical Stability	Normally stable.
Conditions to Avoid	None known.
Incompatible Materials	Oxidizing agents (e.g. peroxides), strong bases (e.g. sodium hydroxide).
Hazardous Decomposition Products	None known.
Possibility of Hazardous Reactions	None known.

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
1,4-Dichlorobenzene	> 6000 mg/m3 (rat) (4-hour exposure) (gas)	3863 mg/kg (male rat)	> 6000 mg/kg (rat)

Skin Irritation / Corrosion

No information was located.

Eye Irritation / Corrosion

No information was located.

Effects of Short-Term (Acute) Exposure

Inhalation

Not harmful based on limited evidence.

Skin Absorption

May be harmful.

Ingestion

Harmful.

Effects of Long-Term (Chronic) Exposure

Harmful based on limited evidence. May cause harmful effects on the liver. May cause harmful effects on the kidneys. May cause effects on the central nervous system.

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
1,4-Dichlorobenzene	Group 2B	A3		

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. A3 = Animal carcinogen. Group 2B = Possibly carcinogenic to humans.

Teratogenicity / Embryotoxicity

Does not cause harm to the unborn child.

Reproductive Toxicity

No information was located.

Mutagenicity

Not mutagenic.

Toxicologically Synergistic Materials

No information was located.

12. ECOLOGICAL INFORMATION

General Comments Environmental information was not located.

13. DISPOSAL CONSIDERATIONS

The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

14. TRANSPORT INFORMATION

Shipping Information

Regulation	UN No.	Shipping Name	Class	Packing Group
Canadian TDG	3077	Environmentally Hazardous Substances, Solid n.o.s. (p-dichlorobenzene)	9.2	III
US DOT	3077	Environmentally Hazardous Substances, Solid n.o.s. (p-dichlorobenzene)	9	III
IMO (Marine)	3077	Environmentally hazardous substances, solid, n.o.s.	9	III

Other Transport Information

Special Shipping Please note: US DOT: In inner containers of 100 lbs capacity or less, this product is exempt

Information from DOT regulations (non-regulated).

15. REGULATORY INFORMATION

Canada

WHMIS Classification


Class B3


Class D2A

B3 - Combustible Liquid; D2A - Very Toxic

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 1A Part 5.

USA

US OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Custom Regulatory 1

This Product may not be sold for use in the following US states: California Michigan Maryland Delaware Pennsylvania New Jersey Connecticut Rhode Island Massachusetts Maine District of Columbia New York

16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 2** **Instability - 0**

Based on 1,4-Dichlorobenzene

Date of Preparation September 10, 2012