SAFETY DATA SHEET

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	**HP 26 Lane Cleaner**
1.2 Relevant identified uses of the substance or mixture and uses advised against	Lane cleaner for bowling lanes.
1.3 Details of the supplier of the safety data sheet	
Producer	Bowling Vision Ltd
Address	Unit 2 Bushacre Court Garrard Way Kettering, NN16 8TD
Telephone number	+44 (0)1536 412244
Contact person	Sally Richards
e-mail	sales@bowlingvision.com
1.4 Emergency telephone number	24 hours service is available at www.nhs.uk. Call 112 or 999 at acute emergencies. If less acute, call 111.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Dam 1, H318,
Skin Irrit. 2, H315
STOT SE 3, H335

2.2 Label elements

GHS hazard pictogram	
Signal word	Danger
Hazard statement	H318 Causes serious eye damage H315 Causes skin irritation H335 May cause respiratory irritation
Safety information – precautionary	P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Safety information – measures	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Safety information – storage	-
Safety information –	-

waste	

Label according to the Detergent regulation EC 648/2004:
Non-ionic surfactants < 5 %
Cationic surfactants < 5 %

2.3 Other hazards

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Section 3: Composition/information on ingredients

EC-no	CAS-no	Reg-no REACH	Name of component	Conc. Vol%	Classification	Com.
230-785-7	7320-34-5	01-2119489369-18-0000	Tetrapotassium pyrophosphate	0.5-0.9 %	Eye Irrit 2, H319	
600-279-4	10213-79-3	2299129-01-2119449811-37	Disodium metasilicate	0.7-0.9 %	Skin Corr 1B, H314, Eye Dam 1, STOT SE 3, H335, Met Corr 1, H290	
614-482-0	68439-46-3	Exempted polymer	Alcohols, C9-11 ethoxylated	3-4 %	Eye Irrit 2, H319	
810-152-7	1554325-20-0	Exempted polymer	Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides	1-3 %	Acute Tox 4, H302 Skin Irrit 2, H315 Eye Dam 1, H318	

Explanation of abbreviations:
CAS-nr. = Chemical Abstracts Service; EU-no (Einecs- or Elincsnumber) = European Inventory of Existing Commercial Chemical Substances or European LIst of Notified Chemical Substances.
Content specified as; %, %wt/wt, %vol/wt, %vol/vol, mg/m^3, ppb, ppm, wt%, vol%.
WEL = The product have a workplace exposure limit, PBT = The product is declared since it's a PBT- or a vPvB-substance.

Comments: The CAS number that that supplier gives for Disodium metasilicate is for penta hydrate. The CAS-number for water free Disodium metasilicate is 6834-92-0.

For risk phrases in plain text, see section 16.

Section 4: First aid measures

4.1 Description of first aid measures	
Inhalation	Move to fresh air and rest. If the person has difficulties to breathe, seek a physician.
Skin contact	Remove contaminated clothes. Wash the skin with water and soap.

Eye contact	Remove contact lenses. Rinse the eyes for at least 5 minutes. If symptoms persist, seek a physician.
Ingestion	Drink copious amounts of milk or water. **Do not induce vomiting.** Seek a physician.
4.2 Most important symptoms and effects, both acute and delayed	
Inhalation	May cause some transient irritation to the respiratory tract.
Skin contact	Irritates the skin.
Eye contact	Can give serious eye irritation or damages.
Ingestion	Irritating to the mouth and gastrointestinal tract.
4.3. Indication of any immediate medical attention and special treatment needed	Access to water for rinsing eyes at the working place. Treat symptomatic. Do NOT induce vomiting.

Section 5: Firefighting measures

5.1 Extinguishing media a. Recommended Extinguishing media b. Not Recommended Extinguishing media	The product does not burn. a. Extinguish surrounding fire with foam, carbon dioxide, powder or water spray. b. Water jet. Foam containing substances that are harmful for the environment.
5.2 Special hazards arising from the substance or mixture	Water from firefighting gets slightly basic.
5.3 Advise for firefighters	None.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personnel	For personal protection equipment see section 8. Wash skin or contaminated clothes with soap and water.
6.1.2 For emergency responders	Wash with water.
6.2 Environment precautions	Prevent discharge to the sewage system or water.
6.3 Methods and material for containment and cleaning up 6.3.1. Surrounding embankment /sealing 6.3.2 Recommended cleaning up measures 6.3.3 Non-recommended measures	Small amounts can be washed away with water. Collect larger amounts with an adsorbent and dispose as dangerous waste.
6.4 Reference to other sections	For disposal of waste, see section 13.

Section 7: Handling and storage

7.1 Precaution for safe handling	Use personal protection according to section 8.
7.2 Condition for safe storage, including any incompatibilities	Store the product in an original container, protected from freezing and direct sun light and not above 30 °C. Do not store in containers of aluminium or other light

	metals. Store separated from acids.
7.3 Specific end use(s)	No specific end uses.

Section 8: Exposure controls/personal protection

8.1 Control parameters

National occupational exposure limits values, EH40, 2005

None

PNEC and DNEL/DMEL

CAS-no	Substance name	PNEC (kind of environment)	DNEL (way of exposure)	Com.
7320-34-5	Tetrapotassium pyrophosphate	PNEC(fresh water) 0.05 mg/L PNEC(marine water) 0.005 mg/L PNEC(STP) 50 mg/L	Worker, system effect, prolonged exposure through inhalation DNEL 44.08 mg/m³ Consumer, system effect, prolonged exposure through inhalation DNEL 10.87 mg/m³	
6834-92-0	Disodium metasilicate	PNEC(fresh water) 7.5 mg/L PNEC(marine water) 1 mg/L PNEC(STP) 1000 mg/L	Worker, system effect, prolonged exposure through inhalation DNEL 6.22 mg/m³ Worker, system effect, prolonged exposure through skin contact DNEL 1.49 mg/kg/body weight Consumer, system effect, prolonged exposure through inhalation DNEL 1.55 mg/m³ Consumer, system effect, prolonged exposure through both ingestion and skin contact DNEL 0.74 mg/kg/body weight	
68439-46-3	Alcohols, C9-11 ethoxylated	PNEC(fresh water) 0.104 mg/L PNEC (water, intermittent) 0,014 mg/L PNEC(marine water) 0.104 mg/L	Worker, system effect at prolonged exposure through inhalation DNEL 294 mg/m³ Worker, system effect at prolonged exposure through skin contact DNEL 2080 mg/kg/body weight Consumer, system effect at prolonged exposure through	

		PNEC(STP) 1.4 mg/L	inhalation DNEL 87 mg/m³ Consumer, system effect at prolonged exposure through skin contact DNEL 1250 mg/kg/body weight Consumer, system effect at prolonged exposure through förtäring DNEL 25 mg/kg/body weight	

Biological limit values	None
Recommended surveillance procedure	None

8.2 Exposure controls

8.2.1 Recommended technical control measures	None
8.2.2 Individual protection measures, e.g. personal protection equipment	Ensure good ventilation when using the product.
Eye/face protection	None. When spraying the product, use safety goggles.
Skin protection **i) Hand protection (material, thickness, breakthrough time)** **ii) Other protection**	i) Nitrile or neoprene gloves Permeation time 4-8 hrs. ii) Normal working clothes.
Respiratory protection	If spraying the product, one can use a half mask with particle filter P2 and A.
8.2.3 Environmental exposure control	Avoid large leakage to surface water or sewage system

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance/Form /State	Liquid
Odour	Weak
Colour	Light red
pH	12.7
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C
Flash point	Not flammable
Evaporation rate	Not determined
Flammability	Not flammable
Density	1000 kg/m³
Solubility	Fully water soluble

9.2 Other information

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Section 10: Stability and reactivity

10.1 Reactivity	The product is not reactive during normal handling and storage conditions.
10.2 Chemical stability	Stable at normal storing and handling conditions.
10.3 Possibility of hazardous reactions	None
10.4 Conditions to avoid	Strong acids, oxidizing and reducing agents.
10.5 Incompatible materials	Do not store in bottles of aluminium or other light metals.
10.6 Hazardous decomposition products	Small amounts of hydrogen chloride can be emitted if the product is heated, but there are no other hazardous decomposition products.

Section 11: Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

Tetrapotassium pyrophosphate:
LD50 oral rat 3 600 mg/kg
LC50 4h inhalation rat >0.58 mg/L
LD50 dermal (rabbit) 24 h >300 mg/kg

Disodium metasilicate:
LD50 oral rat 1150-1349 mg/kg
LC50 4h inhalation rat 2.06 mg/L
LD50 dermal (rabbit) >5000 mg/kg

Alcohols, C9-11 ethoxylated
LD50 oral rat >3.7 g/kg
LC50 6h inhalation rat >100 mg/m³
LD50 dermal (rabbit) > 1.9 g/kg

Long term exposure:
Ingestion: Gives irritation in the mouth and gastrointestinal tract.
Inhalation: Can damage the respiratory tract.
Eye contact: Repeated exposure may cause serious damage to the eyes.
Skin contact: Repeated exposure may cause irritation or atopic eczema.
b) Skin corrosion/irritation: The product is irritating to skin.
c) Serious eye damage/irritation:
The product can give serious eye irritation.
d) Respiratory or skin sensitisation: The product is not sensitizing at skin contact or inhalation. None of the ingredients are known sensitizers.
e) Germ cell mutagenicity: None of the ingredients are known to cause germ cell mutagenicity.
f) Carcinogenicity: None of the ingredients are known to cause cancer.
g) Reproductive toxicity: None of the ingredients are known to cause any damage on reproduction or the unborn foetus.
h) STOT-single exposure: The product will be irritating to the lungs.
i) STOT-repeated exposures: The product will be irritating to the lungs.
j) Aspiration hazard: A hazard of irritation if the product is ingested and enters the lungs, but the product is not classified for aspiration hazard.

k) Other information:

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Section 12: Ecological information

12.1 Toxicity

Acute toxicity from the product is probably caused by the high pH. The inorganic compounds are not suspected to have any other toxic effect.

Acute toxicity:

Alcohols, C9-11 ethoxylated

Acute toxicity

Fish: LC50 5-7 mg/L 96 h Rainbow trout

Daphnia EC50 2.5 mg/L, 48 h

Algae: EC50: > 1 - 10 mg/L, 72 h, Skeletonema costatum (algae), read-across.

Long term toxicity

Fish: NOEC > 30.33 mg/L. Growth Juvenile fish, Lepomis macrochirus, 10-30 days.

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

Acute toxicity

Fish. LC50: > 10 - 100 mg/L Exposure: 96 h

Daphnia EC50: > 1 - 10 mg/L Exposure: 48 h

Algae: EC50: > 1 - 10 mg/L Exposure: 72 h

12.2 Persistence and degradability

Degradation is not relevant for the inorganic substances in the product. The surfactants are in compliance with the Detergent regulation easily degradable.

Alcohols, C9-11 ethoxylated

72 % after 28 days. Read-across similar substance. ISO 14593 Water quality.

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

Method: OECD:s guidelines for test 301 D, Easily degradable.

12.3 Bioaccumulative potential

Alcohols, C9-11 ethoxylated

Log Kow 3.42 (QSAR)

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

No data.

12.4 Mobility in soil

The product has probably a high mobility in the environment as it is fully water soluble.

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substance.

12.6 Other adverse effects

The phosphate that is included in the product has a fertilizing effect in the eco system.

Section 13: Disposal consideration

13.1 Waste treatment methods	a) Emptied plastic packages are sorted as hard plastic. The product could be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. b) There are no physical/chemical properties that may affect the waste treatment solutions. c) Larger residues should not be released to the sewage system. d) No special security measures concerning waste treatment methods are needed.
Waste codes (EWC)	Depends where the waste is produced, but suitable codes are: 07 06 01* 20 01 15*
The product is classified as hazardous waste	Yes
Waste codes (EWC) for the container	A suitable code for the package is 20 01 39.
A not thoroughly cleaned container is considered dangerous waste	Yes
Other information	See section 8 for personal protection during disposal of waste.

Section 14: Transport information

General	Not regulated as hazardous goods, as the corrosive effect is just for the eyes.
14.1 UN number	-
14.2 UN Proper Shipping Name	-
14.3 Transport hazard class(es)	-
14.4 Packing group	-
14.5 Environmental hazards	-
14.6 Special precautions for users	-
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	The product is not transported in bulk.

Section 15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

No relevant.

15.2 Chemical safety assessment

Chemical safety assessments are made for Disodium metasilicate and Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl)dimethyl, ethoxylated, chlorides

Section 16: Other information

This MSDS is changed in section 3.

Hazard and Precautionary statements from section 2 and 3 in plain text (CLP):
Eye Dam 1 Serious eye damage/eye irritation, Hazard Category 1,
H318 Causes serious eye damage.
Skin Irrit. 2 Skin corrosion/irritation, Hazard Category 2, H315 Causes skin irritation.
STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation, H335 May cause respiratory irritation.
Eye Irrit 2 Serious eye damage/eye irritation, Hazard Category 2,
H319 Causes serious eye irritation.
Skin Corr 1B Skin corrosion/irritation, Hazard Category 1B,
H314 Causes severe skin burns and eye damage.
Met Corr 1 Corrosive to metals, Hazard Category 1, H290 May be corrosive to metals.
Acute Tox 4 Acute toxicity (oral), Hazard Category 4, H302 Harmful if swallowed.

Sources for data in this MSDS

- Safety datasheet from suppliers of raw materials
- Data from REACH registration of ingredients, database ECHA, https://echa.europa.eu/
- Quick Selection Guide to Chemical Protective Clothing, Krister Forsberg

Advice about training:
No special training necessary.

Other information:

The safety data sheet is based on the REACH regulation EC 1907/2006 and the regulation EU 453/2010.
Classification according to the CLP regulation EC 1272/2008.
Names in section 3 are given either according to harmonised classified substances in Annex VI, CLP regulation EC/1272/2008, IUPAC name or other common used named chosen by the supplier. See article 18 in the CLP regulation.