

SAFETY DATA SHEET

1. Identification

Product identifier IN-SPEC® STRAY LIGHT STANDARD, POTASSIUM IODIDE, 1% SOLUTION

Other means of identification

Product code 8380

Recommended useNot available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Company name GFS Chemicals, Inc. **Address** P.O. Box 245

Powell OH 43065 US

Telephone Phone 740-881-5501 Toll Free 800-858-9682

Fax 740-881-5989

rax 740-881i**te** www.gfschemicals.com

Website www.gfschemicals.com
E-mail service@gfschemicals.com

Emergency phone Emergency Assistance Chemtrec 800-424-9300

number

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNo symbol.Signal wordNot available.Hazard statementNot available.

Precautionary statement

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	CAS number	%
POTASSIUM IODIDE	7681-11-0	1
Non-hazardous components		
Chemical name	CAS number	%
WATER	7732-18-5	99

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If fumes from reactions are inhaled, move to fresh air immediately.

Skin contact Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

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Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Get medical attention if symptoms occur. Drink a few glasses of water or milk.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Not available.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing agent suitable

for type of surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for

firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure

demand breathing apparatus, protective clothing and face mask.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.

Methods and materials for containment and cleaning up

Should not be released into the environment. This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Small quantities may be flushed to drains with plenty of water. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Room temperature - normal conditions.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
POTASSIUM IODIDE (CAS	TWA	0.01 ppm	Inhalable fraction and
7681-11-0)			vapor.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical goggles.

Skin protection

Not normally needed. Hand protection

Other Normal work clothing (long sleeved shirts and long pants) is recommended. **Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not available.

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General hygiene considerations

Provide eyewash station and safety shower.

9. Physical and chemical properties

Appearance Clear. **Physical state** Liquid.

> **Form** Aqueous solution. Color Colorless to yellow.

Odor Odorless. **Odor threshold** Not available. рH 6 - 9 estimated < 32 °F (< 0 °C) Melting point/freezing point

Initial boiling point and

boiling range

> 212 °F (> 100 °C)

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Not available. Vapor density Not available. **Relative density** Solubility(ies) completely miscible

Partition coefficient

(n-octanol/water)

Not available.

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Density 1.01 g/cm3

Molecular formula ΚI

Molecular weight 166 g/mol

Percent volatile 99 % estimated

Specific gravity 1.01

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Exposure to light. **Incompatible materials** Oxidizing material.

Hazardous decomposition Iodine gas. May include oxides of iodine.

products

11. Toxicological information

Information on likely routes of exposure

Ingestion Based on available data, the classification criteria are not met.

Inhalation Due to lack of data the classification is not possible. Skin contact Due to lack of data the classification is not possible.

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Eye contact Due to lack of data the classification is not possible.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Product Species Test Results

IN-SPEC® STRAY LIGHT STANDARD, POTASSIUM IODIDE, 1% SOLUTION (CAS Mixture)

Acute

Other

LD50 Rat 28500 mg/kg, estimated

Components Species Test Results

POTASSIUM IODIDE (CAS 7681-11-0)

Acute

Other

LD50 Rat 285 mg/kg

Skin corrosion/irritation Due to lack of data the classification is not possible.

Serious eye damage/eye

irritation

May irritate eyes. Due to lack of data the classification is not possible.

Respiratory sensitization Due to lack of data the classification is not possible.

Skin sensitization May cause irritation. Due to lack of data the classification is not possible.

Germ cell mutagenicity Due to lack of data the classification is not possible.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity Due to lack of data the classification is not possible. **Specific target organ toxicity** Due to lack of data the classification is not possible.

- single exposure

Dradust

Due to lack of data the classification is not possible.

- repeated exposure

Specific target organ toxicity

Aspiration hazard Due to lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

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Product		Species	lest Results	
IN-SPEC® STRAY LIG	GHT STANDARD, PO	TASSIUM IODIDE, 1% SOLUTION (CAS Mixtu	re)	
Crustacea	LC50	Daphnia	26650 mg/l, 24 Hours	
Fish	LC50	Fish	99999 mg/l, 96 Hours	
Components		Species	Test Results	
POTASSIUM IODIDE	(CAS 7681-11-0)			
Aquatic				
Crustacea	LC50	Zebra mussel (Dreissena polymorpha)	220 - 313 mg/l, 24 hours	
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2190 mg/l, 96 hours	
			896 mg/l, 96 hours	

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Persistence and degradability None known.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

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^{*} Estimates for product may be based on additional component data not shown.

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13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Neutralize and

flush solution into sewer connected to wastewater treatment system in compliance with applicable

laws and regulations. Dispose in accordance with all applicable regulations.

Local disposal regulations Hazardous waste code

Not available.

Waste from residues /

Not regulated.

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

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

TATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

No

hazardous substance

No

SARA 311/312 Hazardous chemical

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)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug Not regulated.

Administration (FDA)

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California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

On inventory (yes/no)*

Yes

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Inventory name

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Australian Inventory of Chemical Substances (AICS)

Not listed.

International Inventories Country(s) or region

Australia

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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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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

Issue date May-03-2013

Version # 01

Further information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

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