



Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272
Issue date: 2026/1/6 Version: 1.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : Freestyle Control Solution

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Reagent

1.4. Supplier's details

Abbott Diabetes Care Ltd
Range Road, Witney
Oxfordshire, OX29 0YL
UK
Abbott.SDS@abbott.com

Canada address

1.5. Emergency phone number

Emergency number : CHEMTREC 1(800) 424-9300 (in USA or Canada) or +1-703-527-3887 (international)
24/7

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS label elements, including precautionary statements

GHS CA labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Compound 1	Not disclosed	Not disclosed	80 – 90

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Name	Chemical name / Synonyms	Product identifier	%
Compound 2	Not disclosed	Not disclosed	10 – 15
HEPES	1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-HYDROXYETHYLPIPERAZINE ETHANE SULFONIC ACID / Piperazine, 1-(ethylsulfonic acid)-4-(2-hydroxyethyl)- / 2-[4-(2-Hydroxyethyl)-1-piperazinyl]ethanesulfonic acid / Hydroxyethylpiperazine ethane sulfonic acid	CAS-No.: 7365-45-9	0.1 – 1
Compound 3	Not disclosed	Not disclosed	0.1 – 1
Compound 4	Not disclosed	Not disclosed	0.1 – 1
Sodium hydroxide	Caustic soda / LYE / Lye solution	CAS-No.: 1310-73-2	≤ 0.1
Proclin 300	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CMI + MIT in mixture 3:1 / Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) / Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) / Kathon CG 5243 and Kathon CG 243 / 5-Chloro-2-methyl-3(2H)-isothiazolone with 2-methyl-3(2H)-isothiazolone / 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixture with 2-methyl-3(2H)-isothiazolone (3:1) / Methylisothiazolinone and methylchloroisothiazolinone, in combination / Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one / Kathon 886 / Reaction mass 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) / Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one / Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) / Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1); reaction mass of: 5-chloro-	CAS-No.: 55965-84-9	≤ 0.1

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Name	Chemical name / Synonyms	Product identifier	%
	2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1) / 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixture with 2-methyl-3(2H)-isothiazolone		
Amaranth dye	2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt Acid Amaranth / Acid Red 37 / Amaranth / D and C Red 2 / C.I. 16185 / C.I. Acid Red 27 / C.I. Acid Red 27, trisodium salt / C.I. Food Red 9 / FD and C Red No. 2 / Food Red 2 / Food Red 9 / 2-Hydroxy-1,1'-azonaphthalene-3,6,4'-trisulfonic acid trisodium salt / 3-Hydroxy-4-((4-sulfo-1-naphthalenyl)azo)-2,7-naphthalenedisulfonic acid trisodium salt / 3-Hydroxy-4-((4-sulfo-1-naphthyl)azo)-2,7-naphthalenedisulfonic acid, trisodium salt / 3-Hydroxy-4-((4-sulpho-1-naphthalenyl)azo)-2,7-naphthalenedisulphonic acid, trisodium salt / 3-Hydroxy-4-((4-sulpho-1-naphthyl)azo)-2,7-naphthalenedisulphonic acid, trisodium salt / 2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-((4-sulfo-1-naphthyl)azo)-, trisodium salt / Red No. 2 / 1-(4-Sulpho-1-naphthylazo)-2-naphthol-3,6-disulphonic acid, trisodium salt / Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2,7-disulphonate / Trisodium salt of 1-(4-sulfo-1-naphthylazo)-2-naphthol-3,6-disulfonic acid / Trisodium salt of 1-(4-sulpho-1-naphthylazo)-2-naphthol-3,6-disulphonic acid / 2-Hydroxyazonaphthalene-3,4',6'-trisulfonic acid trisodium salt / 2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[2-(4-sulfo-1-naphthalenyl)diazenyl]-, sodium salt (1:3) / Food Red No.2 / Acid amaranth / ACID RED 27 / Trisodium 3-hydroxy-4-(4'-sulfonatonaphthylazo)naphthalene-2,7-disulfonate	CAS-No.: 915-67-3	≤ 0.1
Compound 5	Not disclosed	Not disclosed	≤ 0.01

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.
First-aid measures general	: Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use. May cause an allergic skin reaction.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: May cause minor skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Direct contact with eyes is unlikely to be irritating.
Symptoms/effects after ingestion	: May cause minor gastrointestinal irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Specific hazards arising from the chemical

Fire hazard	: No data available.
Explosion hazard	: No data available.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Collect spillage. Keep in suitable, closed containers for disposal.

For further information refer to section 8: "Exposure controls/personal protection"

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only with adequate ventilation. Do not breathe vapours, mist. Keep container tightly closed in a cool place. Wash thoroughly after handling. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide (1310-73-2)

Canada (Alberta) - Occupational Exposure Limits

Local name	Sodium hydroxide
OEL C	2 mg/m ³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021

Canada (Quebec) - Occupational Exposure Limits

Plafond (OEL C)	2 mg/m ³
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Canada (British Columbia) - Occupational Exposure Limits

Local name	Sodium hydroxide
OEL C	2 mg/m ³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)

Canada (Manitoba) - Occupational Exposure Limits

Local name	Sodium hydroxide
OEL C	2 mg/m ³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025

Canada (New Brunswick) - Occupational Exposure Limits

OEL C	2 mg/m ³
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Canada (Newfoundland and Labrador) - Occupational Exposure Limits

Local name	Sodium hydroxide
OEL C	2 mg/m ³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025

Canada (Nova Scotia) - Occupational Exposure Limits

Local name	Sodium hydroxide
OEL C	2 mg/m ³

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Sodium hydroxide (1310-73-2)	
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m ³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m ³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
OEL C	2 mg/m ³
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m ³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL TWA	2 mg/m ³
OEL STEL	2 mg/m ³
OEL C	2 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Canada (Yukon) - Occupational Exposure Limits	
OEL C	2 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium hydroxide
ACGIH® TLV® C	2 mg/m ³
Remark (ACGIH®)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Sodium hydroxide
OSHA PEL TWA	2 mg/m ³
OSHA PEL C	2 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Proclin 300 (55965-84-9)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
HEPES (7365-45-9)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Amaranth dye (915-67-3)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Compound 2	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Compound 3	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Compound 4	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Compound 1	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	OELs not established
Compound 5	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH®)	OELs not established

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Compound 5

USA - OSHA - Occupational Exposure Limits

Remark (OSHA)

OELs not established

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Gloves. Protective goggles.

Hand protection:

Use gloves appropriate to the work environment. Gloves should be classified under Standard EN 374 or ASTM F1296.

Eye protection:

Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection:

Where vapour, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Where vapour, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1 g/ml
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: No data available.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No data available.
Conditions to avoid	: No data available.
Incompatible materials	: No data available.
Hazardous decomposition products	: No data available.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Sodium hydroxide (1310-73-2)

LD50 oral rat	140 – 340 mg/kg Source: ECHA
LD50 dermal rabbit	1350 mg/kg Source: HSDB
ATE CA (oral)	140 mg/kg bodyweight
ATE CA (Dermal)	1350 mg/kg bodyweight

Proclin 300 (55965-84-9)

LD50 oral rat	53 mg/kg
LD50 dermal rat	> 1008 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	87.12 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l Source: US EPA
ATE CA (oral)	53 mg/kg bodyweight

HEPES (7365-45-9)

LD50 oral rat	> 2000 mg/kg (Source: KR_NIER)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Amaranth dye (915-67-3)	
LD50 oral rat	6 g/kg (Source: NLM_HSDB)
Compound 2	
LD50 oral rat	100 g/kg (Source: NLM_CIP)
Compound 3	
LD50 oral rat	3 g/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 42 g/m ³ 1h
LC50 Inhalation - Rat (Dust/Mist)	> 10.5 mg/l Source: Corporate Solution From Thomson Micromedex
Compound 4	
LD50 oral rat	25800 mg/kg
LD50 oral dog	8000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use. May cause an allergic skin reaction.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: May cause minor skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Direct contact with eyes is unlikely to be irritating.
Symptoms/effects after ingestion	: May cause minor gastrointestinal irritation.
Other information	: No additional information available.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: No information available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Compound 3	
LC50 - Fish	1295 mg/l (Exposure time: 96 h - Species: fathead minnow)
EC50 - Crustacea	1661 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Sodium hydroxide (1310-73-2)	
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN Number

UN-No. (TDG) : Not applicable

UN-No. (DOT) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (TDG) : Not applicable

Proper Shipping Name (DOT) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group, if applicable

Packing group (TDG) : Not applicable

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Freestyle Control Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

Not applicable

DOT

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Freestyle Control Solution

All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or are exempt.

15.2. International regulations

Freestyle Control Solution

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA.

SECTION 16 Other Information

Issue date : 2026/01/06

Other information : Author: SS.

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.