

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product Name : Index™ Kit
Product Number : HR2-144
Product type : Liquid
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For research use only. Not for drug, household, or other use.

1.3 Details of the supplier of the Safety Data Sheet

Company : Hampton Research
34 Journey
Aliso Viejo, CA 92656-3317
United States
Telephone : 949 425 1321
Telephone technical support is available 8:00 a.m. to 4:30 p.m. USA Pacific Standard Time.
Fax : 949 425 1611
Fax Technical Support is available 24 hours a day.
e-mail : tech@hrmail.com
e-mail Technical Support is available 24 hours a day.

1.4 Emergency telephone number

Emergency phone : 949 425 1321
For **CHEMTREC** Assistance : 800 424 9300
For **CHEMTREC** Assistance : 703 527 3887 (International)

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

see SECTION 16

Classification according to EU Directives 67/548/EEC or 1999/45/EC

see SECTION 16

Additional information:

Relevant R-phrases, S-phrases, GHS pictogram(s), Hazard statement(s), and Precautionary statement(s) please see SECTION 16

(CONTINUED) - SECTION 2: Hazards Identification

2.2 Label elements

Hazard pictogram	: Not applicable
Signal word	: Not applicable
Hazard statement(s)	: Not applicable
Precautionary statement(s)	: Not applicable
Supplemental Hazard Statements	: Not applicable

2.3 Other hazards : none

SECTION 3: Composition/information on ingredients

Refer to Section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

No specific treatment.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

No data available

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see SECTION 8 and 13.

SECTION 7: Handling and Storage

7.1 Personal Precautions

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

See Section 8 for additional information on hygiene measures. For precautions see section 16.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

A part from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

Consult a physician. Show this safety data sheet to the doctor in attendance.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Exposure Controls

See SECTION 6

SECTION 9: Physical and Chemical Properties

No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

(CONTINUED) - SECTION 10: Stability and Reactivity

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Other decomposition products - no data available

SECTION 11: Toxicological Information

Refer to Section 16

SECTION 12: Ecological Information

Refer to Section 16

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transportation Information

14.1 UN number

ADR/RID: 3316

IMDG: 3316

IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: No

IMDG Marine pollutant: No

IATA: No

(CONTINUED) - SECTION 14: Transportation Information**14.6 Special precautions for user**

No data available

SECTION 15: Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006.

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

No data available

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other Information**Kit Components**

Substance Name	Catalog #	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
(+/-)-2-Methyl-2,4-pentanediol	HR2-627	107-41-5	36/38		GHS07	H315-H319	P305 + P351 + P338	1
Ammonium acetate	HR2-799	631-61-8						
Ammonium citrate tribasic	HR2-759	3458-72-8	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
Ammonium sulfate	HR2-541	7783-20-2				H412	P273+P501	1
Ammonium tartrate dibasic	HR2-679	3164-29-2						3
BIS-TRIS	HR2-781	6976-37-0	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	3
Cadmium chloride hydrate	HR2-715	654054-66-7	45-46-60-61-25-26-48/23/25-50/53	53-45-60-61	GHS06, GHS08, GHS09	H301-H330-H340-H350-H360FD-H372-H410	P201-P260-P273-P284-P301 + P310-P310	3
Calcium chloride dihydrate	HR2-557	10035-04-8	36	22-24	GHS07	H319	P305 + P351 + P338	1
Citric acid	HR2-757	77-92-9	36	26	GHS07	H319	P305 + P351 + P338	1
Cobalt(II) chloride hexahydrate	HR2-713	7791-13-1	49-60-22-42/43-50/53-68	53-45-60-61	GHS07, GHS08, GHS09	H302-H317-H334-H341-H350i-H360F-H410	P201-P261-P273-P280-P308 + P313-P501	3
DL-Malic acid	HR2-761	6915-15-7	22-37/38-41	26-36/39	GHS05, GHS07	H302-H315-H318-H335	P261-P280-P305 + P351 + P338	3
HEPES	HR2-585	7365-45-9						1
Jeffamine® ED-2001	HR2-597	65605-36-9						1
Jeffamine® M-600®	HR2-501	77110-54-4	21/22-36/38	26-36/37	GHS07	H302 + H312-H315-H319	P280-P305 + P351 + P338	3
Lithium sulfate monohydrate	HR2-545	10102-25-7	22		GHS07			1
L-Proline	HR2-775	147-85-3						1
Magnesium chloride hexahydrate	HR2-559	7791-18-6						1
Magnesium formate dihydrate	HR2-537	557-39-1						3

(CONTINUED) - SECTION 16: Other Information

Kit Components								
Substance Name	Catalog #	[CAS]	R-Phrase	S-Phrase	GHS Pictogram	Hazard Statement	Precautionary Statement	WKG
Nickel(II) chloride hexahydrate	HR2-687	7791-20-0	49-61-23/25-38-42/43-48/23-50/53-68	53-45-60-61	GHS06, GHS08, GHS09	H301 + H331-H315-H317-H334-H341-H350i-H360D-H372-H410	P201-P261-P273-P280-P301 + P310-P311	3
Pentaerythritol ethoxylate (15/4 EO/OH)	HR2-745	30599-15-6						3
Pentaerythritol propoxylate (5/4 PO/OH)	HR2-739	9051-49-4						1
Polyacrylic acid sodium salt 5,100	HR2-773	9003-04-7	36	26-36	GHS07	H319	P305 + P351 + P338	3
Polyethylene glycol 1,500	HR2-525	25322-68-3						1
Polyethylene glycol 3,350	HR2-527	25322-68-3						1
Polyethylene glycol 8,000	HR2-515	25322-68-3						1
Polyethylene glycol 10,000	HR2-607	25322-68-3						1
Polyethylene glycol monomethyl ether 550	HR2-611	9004-74-4						1
Polyethylene glycol monomethyl ether 2,000	HR2-613	9004-74-4						1
Polyethylene glycol monomethyl ether 5,000	HR2-615	9004-74-4						1
Polypropylene glycol P 400	HR2-771	25322-69-4						1
Polyvinylpyrrolidone K 15	HR2-769	9003-39-8						
Potassium bromide	HR2-779	7758-02-3	36/37/38	26-36	GHS07	H315-H319-H335	P261-P305 + P351 + P338	1
Potassium chloride	HR2-649	7447-40-7						1
Potassium phosphate dibasic	HR2-635	7758-11-4						1
Potassium sodium tartrate tetrahydrate	HR2-539	6381-59-5						3
Potassium thiocyanate	HR2-695	333-20-0	20/21/22-32-52/53	13-36/37-46-61	GHS07	H302-H312-H332-H412	P273-P280	
Sodium acetate trihydrate	HR2-543	6131-90-4						1
Sodium chloride	HR2-637	7647-14-5						1
Sodium citrate tribasic dihydrate	HR2-549	6132-04-3						1
Sodium formate	HR2-547	141-53-7						1
Sodium malonate	HR2-747	141-82-2						3
Sodium phosphate monobasic monohydrate	HR2-551	10049-21-5						1
Succinic acid	HR2-709	110-15-6	41	26-39	GHS05	H318	P280-P305 + P351 + P338	1
Trimethylamine N-oxide dihydrate	HR2-857	62637-93-8	36/38	26-36	GHS07	H315-H319	P305 + P351 + P338	2
Tris	HR2-589	77-86-1						2
Zinc acetate dihydrate	HR2-563	5970-45-6	22-36-50/53	26-60-61	GHS07, GHS09	H302-H319-H410	P273-P305 + P351 + P338-P501	3
For additional information, please refer to the individual Material Safety Data Sheets(s).								

(CONTINUED) - SECTION 16: Other Information

Relevant R-phrases, S-phrases, GHS Pictogram(s), Hazard statement(s), and Precautionary statement(s)

Risk Phrase(s)

- R 20/21/22 : Harmful by inhalation, in contact with skin and if swallowed
- R 21/22 : Harmful in contact with skin and if swallowed
- R 22 : Harmful if swallowed
- R 23/25 : Toxic by inhalation and if swallowed
- R 25 : Toxic if swallowed
- R 26 : Very toxic by inhalation
- R 32 : Contacts with acids liberates very toxic gas
- R 36 : Irritating to the eyes
- R 36/37/38 : Irritating to eyes, respiratory system and skin
- R 36/38 : Irritating to eyes and skin
- R 37/38 : Irritating to respiratory system and skin
- R 38 : Irritating to the skin
- R 41 : Risk of serious damage to eyes
- R 42/43 : May cause sensitization by inhalation and skin contact
- R 45 : May cause cancer
- R 46 : May cause heritable genetic damage
- R 48/23 : Toxic danger of serious damage to health by prolonged exposure through inhalation
- R 48/23/25 : Toxic danger of serious damage to health by prolonged exposure through inhalation and if swallowed
- R 49 : May cause cancer by inhalation
- R 50/53 : Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- R 52/53 : Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
- R 60 : May impair fertility
- R 61 : May cause harm to the unborn child
- R 68 : Possible risk of irreversible effects






Safety Phrase(s)

- S 13 : Keep away from food, drink and animal feeding stuffs
- S 22 : Do not breathe dust
- S 24 : Avoid contact with skin
- S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S 36 : Wear suitable protective clothing and seek medical advice
- S 36/37 : Wear suitable protective clothing and gloves
- S 36/39 : Wear suitable protective clothing and eye/face protection
- S 39 : Wear eye/face protection
- S 45 : In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
- S 46 : If swallowed, seek medical advice immediately and show this container or label
- S 53 : Avoid exposure - obtain special instruction before use
- S 60 : This material and/or its container must be disposed of as hazardous waste
- S 61 : Avoid release to the environment. Refer to special instructions safety data sheet

(CONTINUED) - SECTION 16: Other Information

Relevant R-phrases, S-phrases, GHS Pictogram(s), Hazard statement(s), and Precautionary statement(s)

GHS Pictogram

GHS05	:	Corrosion		GHS08	:	Health Hazard	
GHS06	:	Acute toxicity		GHS09	:	Environment	
GHS07	:	Acute toxicity					

Hazard statement(s)

H301	:	Toxic if swallowed.
H301 + P331	:	Toxic if inhaled / swallowed.
H302	:	Harmful if swallowed.
H302 + P312	:	Harmful if swallowed or in contact with skin.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H340	:	May cause genetic defects.
H341	:	Suspected of causing genetic defects.
H350	:	May cause cancer.
H350i	:	May cause cancer by inhalation.
H360D	:	May damage the unborn child.
H360F	:	May damage fertility.
H360FD	:	May damage fertility. May damage the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	:	Obtain special instructions before use.
P260	:	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	:	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	:	Avoid release to the environment.
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
P284	:	Wear respiratory protection.
P301 + P310	:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P310	:	Immediately call a POISON CENTER or doctor/physician.

(CONTINUED) - SECTION 16: Other Information

Relevant R-phrases, S-phrases, GHS Pictogram(s), Hazard statement(s), and Precautionary statement(s) (Continued) - Precautionary statement(s)

P311 : Call a POISON CENTER or doctor/physician.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 : IF exposed or concerned: Get medical advice/attention.

P501 : Dispose of contents/container to a licensed disposal company.

DISCLAIMER

- For R&D use only. Not for drug, household, or other use.

WARRANTY

• The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of this product. Hampton Research Corp., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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