SAFETY DATA SHEET

SCC3 CONFORMAL COATING

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

1.1. Product identifier

Product name SCC3 CONFORMAL COATING

Product number DCA-a, EDCA200H, ZE

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

Uses advised against At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

1.3. Details of the supplier of the safety data sheet

Supplier

Manufacturer

ELECTROLUBE. A division of HK WENTWORTH LTD
ASHBY PARK, COALFIELD WAY,
ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR
UNITED KINGDOM

+44 (0)1530 419600
+44 (0)1530 416640
info@hkw.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Aerosol 1 - H222, H229

Health hazards

Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Elicitation - EUH208 STOT SE 3 - H336 STOT RE 2 - H373

Environmental hazards

Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)

Xn;R20/21. Xi;R38. F+;R12. N;R51/53.

Physicochemical

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements

EUH208 Contains 4,5-DICHLORO-2-OCTYL-2H-ISOTHIAZOLINE-3-ONE. May produce an allergic reaction.

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

H315 Causes skin irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves, eye and face protection.

Contains CYCLOHEXANE, XYLENE, 1-METHOXY-2-PROPANOL, HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6)), HEPTANE, ETHYLBENZENE

Supplementary precautionary statements

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing vapour/spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria. The above phrases are the risks associated with the product

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIMETHYL ETHER **30-60%**

CAS number: 115-10-6 **EC number:** 204-065-8 **REACH registration number:** 01-2119472128-37-XXXX

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Gas 1 - H220 Press. Gas	F+;R12

XYLENE **10-30%**

CAS number: 1330-20-7 **EC number:** 215-535-7

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Acute Tox. 4 - H312 Skin Irrit. 2 - H315	R10 Xn;R20/21 Xi;R38

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CYCLOHEXANE **10-30%**

CAS number: 110-82-7 **EC number:** 203-806-2 **REACH registration number:** 01-2119463273-41-XXXX

M factor (Acute) = 1 **M factor (Chronic) =** 1

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
STOT SE 3 - H336	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

1-METHOXY-2-PROPANOL **5-10%**

CAS number: 107-98-2 **EC number:** 203-539-1 **REACH registration number:** 01-2119457435-35-0000

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226	R10 R67
STOT SE 3 - H336	
STOT SE 3 - H336	

ETHYLBENZENE **1-5%**

CAS number: 100-41-4 **EC number:** 202-849-4

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F;R11 Xn;R20
Acute Tox. 4 - H332	

HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6)) **1-5%**

CAS number: **EC number:**

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	

HEPTANE **1-5%**

CAS number: 142-82-5 **EC number:** 205-563-8

Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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HEXANE-norm	<1%
CAS number: 110-54-3 **EC number:** 203-777-6 **M factor (Acute) =** 1	
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	**Classification (67/548/EEC or 1999/45/EC)** F;R11 Repr. Cat. 3;R62 Xn;R48/20,R65 Xi;R38 R67 N;R51/53

4,5-DICHLORO-2-OCTYL-2H-ISOTHIAZOLINE-3-ONE	<1%
CAS number: 64359-81-5 **EC number:** — **M factor (Acute) =** 100	
Classification Acute Tox. 4 - H302 Acute Tox. 1 - H330 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400	**Classification (67/548/EEC or 1999/45/EC)** T+;R26. Xn;R22. C;R34. N;R50. R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin contact

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact

Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with the following media: Dry chemicals, sand, dolomite etc. Water spray, fog or mist. Powder.

5.2. Special hazards arising from the substance or mixture

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Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting

Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

Storage class

Flammable compressed gas storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SCC3 CONFORMAL COATING

DIMETHYL ETHER

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m3
Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m3

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m3
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m3
Sk

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m3
Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m3

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m3
Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m3
Sk

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 441 mg/m3(Sk)
Short-term exposure limit (15-minute): WEL 125 ppm(Sk) 552 mg/m3(Sk)

HEPTANE

Long-term exposure limit (8-hour TWA): WEL 500 ppm
Short-term exposure limit (15-minute): WEL

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m3
Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment


Appropriate engineering controls

All handling should only take place in well-ventilated areas. Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. EN166

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection

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No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. EN14387

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid. Aerosol.

Colour
Colourless.

Odour
Solvent.

Melting point
-24°C/-11.2°F

Initial boiling point and range
137 - 143°C/278.6 - 289.4°F @

Flash point
25°C/77°F OC (Open cup).

Upper/lower flammability or explosive limits
: 1.1 - 7

Relative density
0.780

Solubility(ies)
Insoluble in water.

Auto-ignition temperature
480°C/896°F

9.2. Other information

Volatility
Volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Not available. Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid
Flammable/combustible materials. Strong oxidising agents.

10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO_2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Other health effects

There is no evidence that the product can cause cancer.

Acute toxicity - dermal

ATE dermal (mg/kg)

5547.93589991

Acute toxicity - inhalation

ATE inhalation (gases ppm)

19326.73182281

ATE inhalation (vapours mg/l)

15.97326656

ATE inhalation (dusts/mists mg/l)

6.44224394

Inhalation

Harmful by inhalation. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Skin contact

Harmful in contact with skin. Irritating to skin. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin. May cause allergic contact eczema.

Eye contact

Irritating to eyes.

Route of entry

Inhalation

Toxicological information on ingredients.

SCC3 CONFORMAL COATING

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)
3,523

Species
Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)
12126

Species
Rabbit

Inhalation
Harmful by inhalation. Upper respiratory irritation. Central nervous system depression. Vapours may cause drowsiness and dizziness.

Ingestion
Swallowing concentrated chemical may cause severe internal injury. May cause nausea, headache, dizziness and intoxication. Diarrhoea.

Skin contact
Harmful in contact with skin. Irritating to skin.

Eye contact
May cause severe eye irritation.

Target organs
Central nervous system Liver Kidneys

1-METHOXY-2-PROPANOL

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)
4,016.0

Species
Rat

ATE oral (mg/kg)
4,016.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)
3000.0

Species
Rabbit

ATE dermal (mg/kg)
3000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)
54.6

Species
Rat

ATE inhalation (vapours mg/l)
54.6

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SECTION 12: Ecological Information

Ecotoxicity

Dangerous for the environment if discharged into watercourses.

Ecological information on ingredients.

XYLENE

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Ecological information on ingredients.

DIMETHYL ETHER

Acute toxicity - fish

LC_{50}, >4000 hours: 96 mg/l,

XYLENE

Acute toxicity - fish

LC_{50}, 96 hours: mg/l, Fish

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 1.0 mg/l, Daphnia magna EC_{50}, 48 hours: mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC_{50}, 72 hours: 2.2 mg/l,

CYCLOHEXANE

Acute aquatic toxicity

$LE(C)_{50}$

0.1 < L(E)C50 ≤ 1

M factor (Acute)

1

Acute toxicity - fish

LC_{50}, 96 hours: 42.3 mg/l, Fish

Chronic aquatic toxicity

NOEC

0.01 < NOEC ≤ 0.1

Degradability

Non-rapidly degradable

M factor (Chronic)

1

1-METHOXY-2-PROPANOL

Acute toxicity - fish

LC_{50}, 96 hours: 20800 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 23300 mg/l, Daphnia magna

SCC3 CONFORMAL COATING

HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))

Acute aquatic toxicity

LE(C)$_{50}$

0.1 < L(E)C50 ≤ 1

Chronic aquatic toxicity

NOEC

0.01 < NOEC ≤ 0.1

HEPTANE

Acute aquatic toxicity

LE(C)$_{50}$

0.1 < L(E)C50 ≤ 1

Acute toxicity - fish

LC_{50}, 96 hours: 4.924 mg/l, Fish

Chronic aquatic toxicity

NOEC

0.01 < NOEC ≤ 0.1

12.2. Persistence and degradability

Persistence and degradability

There are no data on the degradability of this product.

Ecological information on ingredients.

XYLENE

Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

XYLENE

BCF: 25.9,

Partition coefficient

: 3.2

12.4. Mobility in soil

Ecological information on ingredients.

XYLENE

Mobility

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

XYLENE

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SCC3 CONFORMAL COATING

Ecological information on ingredients.

XYLENE

Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Disposal methods

Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS (CYCLOHEXANE)
Proper shipping name (IMDG)	AEROSOLS (CYCLOHEXANE)
Proper shipping name (ICAO)	AEROSOLS (CYCLOHEXANE)
Proper shipping name (ADN)	AEROSOLS (CYCLOHEXANE)

Proper Shipping Name (DOT)

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID subsidiary risk	
ADR/RID label	2.1
IMDG class	2.1
IMDG subsidiary risk	
ICAO class/division	2.1
ICAO subsidiary risk	

Transport labels

14.4. Packing group

Not applicable.

ADR/RID packing group

IMDG packing group

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Yes.

14.6. Special precautions for user

EmS F-D, S-U

Emergency Action Code

Hazard Identification Number (ADR/RID)

Tunnel restriction code (D)

Markings

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

SECTION 15: Regulatory information

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

EU legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by Grace Claypole

Revision date 18/03/2015

Revision 7

SDS number 11409

Risk phrases in full

SCC3 CONFORMAL COATING

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62 Possible risk of impaired fertility.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

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EUH208 Contains 4,5-DICHLORO-2-OCTYL-2H-ISOTHIAZOLINE-3-ONE. May produce an allergic reaction.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H222 Extremely flammable aerosol.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H225 Highly flammable liquid and vapour.
H330 Fatal if inhaled.
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H229 Pressurised container: may burst if heated
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains 4,5-DICHLORO-2-OCTYL-2H-ISOTHIAZOLINE-3-ONE. May produce an allergic reaction.