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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: h k @ h

Product Number: hk

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Infotrac - h v

24-Hour Number- (U.S.) 1-800-535-5053; **Outside U.S.-** 352-323-3500

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture



Corrosive

Causes serious skin burns and eye damage.



Causes serious eye irritation

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS05



GHS07

Signal word: Danger

Hazard statements

Causes serious skin burns and eye damage.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

(Continued of page 1)

IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water or shower.

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

If eye irritation persists, get medical advice/attention.

Specific treatment (see on this label).

IF INHALED: Transfer person to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 3

Fire = 1

Reactivity = 0

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components:

CAS No.	Description	% Range	GHS-US classification
CAS: 77-92-9	Citric acid	60-100%	Eye Irrit. 2A, H319
CAS: 5329-14-6	Sulphamidic acid	5-15%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
CAS: 532-32-1	Sodium Benzoate	<5%	Eye Irrit. 2, H319 Acute Toxicity 5, H303
CAS: NA	Surfactants	<5%	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

SECTION 4 - FIRST AID INFORMATION

Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Take affected person into fresh air and keep quiet.

If having difficulty breathing, contact emergency personnel immediately.

After skin contact:

Remove contaminated clothing. Wash clothing before reuse.
Immediately wash with water and soap and rinse thoroughly.
If irritation occurs consult a doctor.

After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.
Seek medical treatment.

After swallowing:

Do not induce vomiting and call for medical help.
Give large amounts of water or milk.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5 - FIRE-FIGHTING INFORMATION

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition is a potential dust explosion hazard.

Advice for firefighters

Protective equipment:

Full protective clothing and self-contained breathing apparatus should be worn.

SECTION 6 - ACCIDENTAL RELEASE INFORMATION

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Information about protection against explosions and fires:

Avoid dust formation and control ignition sources.

Conditions for safe storage, including any incompatibilities

(Continued of page 3)

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly closed.

Store in a well ventilated place.

Store in a cool, dry place.

Do not store in aluminum, carbon steel, copper, copper alloys, fiberglass, brass, zinc, nickel or galvanized containers.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Use PET, HDPE and/or related plastic for suitable packaging.

Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Specific end use(s)

No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

Components with occupational exposure limits:

Federal guidelines suggest to treat the ingredient in this product as a nuisance dust, as no product specific guidelines have been issued for exposure.

Particulates Not Otherwise Regulated: OSHA (PEL/TWA): 15 mg/m³ (total dust); 5 mg/mg³ (resp fraction)

Additional information:

The lists that were valid during the creation were used as basis.

Exposure controls

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:



Protective Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity No further relevant information available.

Chemical stability Product is stable under normal conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Conditions to avoid:

Heat, flame and ignition sources.

Incompatible materials:

Metal nitrates (potential explosive reaction), alkali carbonates and bicarbonates, potassium tartrate, strong oxidizers, nitric acid and chlorine. Will corrode copper, zinc, aluminum and their alloys. Solutions of this material are strong acids and react violently with bases.

Hazardous decomposition products:

Carbon dioxide and carbon monoxide may form when heated to decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity****LD/LC50 values that are relevant for classification**

Citric acid (CAS: 77-92-9)

LD50 oral rate	5040 mg/kg (mouse)
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Sulphamidic acid (CAS: 5329-14-6)

LD50 oral rate	3160 mg/kg (rat)
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Sodium benzoate (CAS: 532-32-1)

LD50 oral rate	>2000 mg/kg (rat)
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Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye: Corrosive effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

IARC (International Agency for Research on Cancer) None of the ingredients is listed.

NTP (National Toxicology Program) None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity****Aquatic toxicity:**

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 1 (Self-assessment):

Slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT:

Not applicable

vPvB:

Not applicable

Other adverse effects

No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste disposal methods**

Waste disposal recommendation

Observe all federal, state and local environmental regulations when disposing of this material.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Un-cleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agent:

Water, if necessary with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION*UN-Number**DOT*

UN3260

ADR, IMDG, IATA

UN2967

*UN proper shipping name**DOT*

Corrosive solid, acidic, inorganic, n.o.s. (Sulfamic acid)

ADR

UN2967 Sulfamic acid, mixture

IMDG, IATA

SULPHAMIC ACID, mixture

*Transport hazard class(es)***DOT***Class*

8 Corrosive substance

Label

8

ADR*Class*

8 (C2) Corrosive substance

<i>Label</i>	8	(Continued of page 7)
IMDG, IATA		
<i>Class</i>	8 Corrosive substance	
<i>Label</i>	8	
<i>Packing group</i>		
<i>DOT, ADR, IMDG, IATA</i>	III	
<i>Environmental hazards:</i>		
<i>Marine pollutant:</i>	No	
<i>Special precautions for user</i>	Warning: Corrosive substance	
<i>Danger code (Kemler):</i>	80	
<i>EMS Number:</i>	F-A, S-B	
<i>Segregation groups</i>	Acids	
<i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	Not applicable	
Transportation/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg	
ADR		
Excepted quantities (EQ)	Code: E1 Max net quantity per inner packaging: 30 g Max net quantity per outer packaging: 1000 g	
IMDG		
Limited quantities (LQ)	5 kg	
Excepted quantities (EQ)	Code: E1 Max net quantity per inner packaging: 30 g Max net quantity per outer packaging: 1000 g	
UN "Model Regulation":	UN2967, Sulfamic acid, mixture, 8, III	

SECTION 15 – REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture	
Sara	
Section 355 (extremely hazardous substances):	None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
TSCA (Toxic Substances Control Act):	All ingredients are listed
Proposition 65	
Chemicals known to cause cancer:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
Chemicals known to cause developmental toxicity:

None of the ingredients is listed.
None of the ingredients is listed.

(Continued of page 8)

Carcinogenic categories

EPA (Environmental Protection Agency)
TLV (Threshold Limit Value established by ACGIH)
NIOSH-Ca (National Institute for Occupational Safety and Health)
GHS label elements

None of the ingredients is listed.
None of the ingredients is listed.
None of the ingredients is listed.

The product is classified and labeled according to the Global Harmonized System (GHS).

Hazard pictograms



GHS05



GHS07

Signal word: Danger

Hazard statements

Causes serious skin burns and eye damage.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
Specific treatment (see on this label).
IF INHALED: Transfer person to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National Regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

State Right to Know

CAS No.	Description	% Range	GHS-US classification
CAS: 77-92-9	Citric acid	60-100%	Eye Irrit. 2A, H319
CAS: 5329-14-6	Sulphamidic acid	5-15%	Skin Irrit. 2, H315
			Eye Irrit. 2, H319

			⚠ Aquatic Chronic 3, H412
CAS: 532-32-1	Sodium Benzoate	<5%	⚠ Eye Irrit. 2, H319 ⚠ Acute Toxicity 5, H303
CAS: NA	Surfactants	<5%	⚠ Skin Irrit. 2, H315

All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Irrit. 2:	Skin corrosion/irritation
Eye Dam. 1:	Serious eye damage/eye irritation
Eye Irrit. 2:	Serious eye damage/eye irritation
Eye Irrit. 2A:	Serious eye damage/eye irritation
Skin Sens. 1:	Sensitization - Skin

Revision Summary: Complies with GHS OSHA requirements.

Supersedes: 20 March 2013

Date Revised: 24 April 2015

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