



INVENTED TO LAST

كيماويات السعودية

Saudi Chem

SC 300

Potassium Formate 75%

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Company Identification Saudi Chem Co.
Emergency Phone No.: +966-13-812-1166
Effective Date 08-13-2005, Original issue
Revised Date last updated , may '2008
Product Potassium Formate75%

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT AND EXPOSURE LIMITS

Mixture: Yes

CAS #	CHEMICAL NAME	Percent	EINECS/ ELINICS
590-29-4	Potassium formate Salt	60-75%	209-677-9
7732-18-5	Water	25-40%	231-791-2

SECTION 3: HAZARDOUS IDENTIFICATION

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

The product is not classified as hazardous to health or the environment.

Label elements: Not applicable.

Labelling according to EU guidelines:

Risk phrases: Not applicable.
Safety phrases: Not applicable.
Hazard description: No special hazards are associated with this product.
Other hazards:
Results of PBT and vPvB assessment:
PBT: No.
vPvB: No

SECTION 4: FIRST AID MEASURES

Description of first aid measures

After inhalation:

First aid measures not required, but get fresh air for personal comfort.

After skin contact:

Wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye under running water.

After swallowing:

Rinse mouth with water.If a large quantity has been ingested or you feel unwell, get medical advice/attention.

Information for doctor:

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 FIGHT MEASURES

Extinguishing media

Suitable extinguishing agents:

Water
 Foam
 Carbon dioxide
 Fire-extinguishing powder

For safety reasons unsuitable extinguishing agents:

Water with full jet

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for firefighters

Protective equipment:

Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear safety glasses, gloves, protective clothing and rubber boots.

Environmental precautions:

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

Methods and material for containment and cleaning up:

Small spill:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Large spill:

Pump up the product into a spare container suitably labelled.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Wear personal protective equipment according to section 8 if risk of exposure.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection:

Not applicable.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: Not determined. **PNECs:** Not determined.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Protective gloves

Material of gloves: Nitrile rubber, NBR Chloroprene rubber, CR Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety glasses

Body protection: Normal work clothes for the chemical industry (long legs and sleeves).

Limitation and supervision of exposure into the environment:

Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance

Form:	Fluid
Fluid Color:	Colorless
Colorless Odor:	Faint
PH-value at 25 °C:	10.0
Flash point:	> 190 °C (ASTM D 7094-04)
Flammability: (solid, gaseous)	The product is not flammable.
Self-igniting:	Product is not self igniting.
Danger of explosion:	Not explosive.
Explosion limits:	Not applicable.

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Oxidizing properties: Not oxidizing.
Vapour pressure: Not applicable.
Density at 20 °C: 1570 kg/m³
Solubility in / Miscibility with water at 20 °C: >1000 g/l
Partition coefficient (n-octanol/water): <0 log POW
Viscosity:
Dynamic: Not applicable.
Other information: No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.

Chemical stability:

The product is stable at normal conditions.

Possibility of hazardous reactions:

Reacts with strong acids and oxidizing agents.

Conditions to avoid: None known.

Incompatible materials: Avoid contact with acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC50 values: 590-29-4 potassium formate

Oral LD50 5500 mg/kg (mouse)

Dermal LD50 >2000 mg/kg (rat) (similar substance, sodium formate, OECD 402)

Primary irritant effect:

On the skin: Slightly irritating.

On the eye: Slightly irritating.

Sensitisation: No sensitising effects known.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Reproductive toxicity: No information available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: 590-29-4 potassium formate

EC50/72h >1000 mg/l (algae) (OECD 201)

>1000 mg/l (Selenastrum capricornutum) ((sodium formate))

LC50/48h >1000 mg/l (Daphnia magna) ((sodium formate))

540 mg/l (daphnia) (OECD 202)

LC50/96h >1000 mg/l (Oncorhynchus mykiss) ((sodium formate))

3500 mg/l (fish) (OECD 203)

NOEC >1000 mg/l (Oncorhynchus mykiss) ((sodium formate))

Persistence and degradability

The product is biodegradable

590-290-4 potassium formate	
BOD28 92	% (bacteria) (OECD 301D)

Behaviour in environmental systems:

Bioaccumulative potential

Low potential for accumulation in organisms.

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590-290-4 potassium formate	
LOG Kow	-2 (OECD 107)

Mobility in soil: No information available.

Ecotoxicological effects:

Remark: Low toxicity to aquatic organisms.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: No. **vPvB:** No.

Other adverse effects No further relevant information available.

Waste treatment methods

The product is not classified as hazardous waste.

European waste catalogue	
16 03 06	organic wastes other than those mentioned in 16 03 05

Uncleaned packaging:

Thoroughly emptied and clean packaging may be recycled.

Contaminated packaging materials must be disposed of in the same manner as the product.

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

UN Number:

ADR, ADN, IMDG, IATA :

Proper shipping name (Technical Name)

•**ADR, ADN, IMDG, IATA :**

Transport hazard class(es) ADR, ADN, IMDG, IATA
Class - Packing group

ADR, IMDG, IATA

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

Not applicable.

Transport/Additional information:

Not dangerous goods according to the above specifications

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

Not applicable.

National regulations:

Other regulations, limitations and prohibitive regulations:

Not applicable.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

The data presented in this MSDS is true and correct to the best of our knowledge and belief, however, neither seller nor preparer makes any warranties, express or implied, concerning the information presented. The user is cautioned to perform his own hazard evaluation and to rely upon his own determinations

SECTION 13: DISPOSAL CONSIDERATIONS

SECTION 14: TRANSPORTATION

SECTION 15: REGULATORY INFORMATION

SECTION 16: OTHER INFORMATION

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