

# Safety Data Sheet per OSHA HazCom 2012

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#### 1 Identification

Product identifier

Product name: Potassium 2-ethylhexanoate

Stock number: 39163

**CAS Number:** 3164-85-0

Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com

Email: tech@alfa.com www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Hazards not otherwise classified No information known.

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms







GHS02 GHS08

# Signal word Warning

Signal word Warning
Hazard statements
H226 Flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
P280 Wear protective gloves / protective clothing.
P273 Avoid release to the environment.
WHMIS classification
P274 Very toxic material causing other toxic effects

D2A - Very toxic material causing other toxic effects



Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1
Flammability = 2
Physical Hazard = 1

Other hazards

Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# 3 Composition/information on ingredients

Chemical characterization: Substances

**CAS# Description:** 3164-85-0 Potassium 2-ethylhexanoate

# 4 First-aid measures

Description of first aid measures

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.

After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

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# Product name: Potassium 2-ethylhexanoate

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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.

# 5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:

Carbon monoxide and carbon dioxide Potassium oxide

Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.

Prevention of secondary hazards: Keep away from ignition sources

Prevention of secondary hazards: Keep away from ignition sources.

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.

# 7 Handling and storage

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.

Information about protection against explosions and fires: Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

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

# 8 Exposure controls/personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Properly operating chemical tume hood designed for hazardous chemicals al Components with limit values that require monitoring at the workplace:

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n-Hexane
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ACGIH TLV 50 (skin) Belgium TWA France TWA 50 50

Belgium IVV.
France TWA 50
Germany TWA 50
Netherlands TWA 100
Switzerland TWA 50, 100-STEL
United Kingdom TWA 100, 125-STEL
Russia TWA 40
Denmark 50
Finland 50, 150-STEL
Hungary TWA 100 mg/m3, 200 mg/m3-STEL
Poland TWA 400 mg/m3
25, 50-STEL
500

Control parameters Components with limit values that require monitoring at the workplace:

#### 2-Ethvlhexanoic acid

ACGIH TLV 5 (inhalable fraction of the aerosol/vapor)

Toluene

ACGIH TLV

50 (skin); Not classified as a human carcinogen

Austria MAK Belgium TWA Denmark TWA

100 100; 150-STEL 35 (skin) 100; 150-STEL (skin) 100; 150-VLE

Finland TWA
France VME 100; 300-STEL (skin)

France VME Germany MAK Hungary TWA Japan OEL Korea TLV 50 -TGG 40

Netherlands MAC-Norway TWA Poland TWA

100 mg/m3; 350 mg/m3-STEL

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# Product name: Potassium 2-ethylhexanoate

Russia TWA 100; 50-STEL Sweden NGV 50; 100-TKV (skin) Switzerland MAK-W 50; 250-KZG-W United Kingdom TWA 50; 150-STEL OSHA PEL 200

Additional information: No data

Exposure controls
Personal protective equipment
General protective and hygienic measures

Not determined.

Not determined.

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Protection of hands:
Impervious allows

Impervious gloves
Check protection of values
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Penetration time of glove material (in minutes) Not determined
Eye protection: Safety glasses
Body protection: Protective work clothing.

# 9 Physical and chemical properties

Information on basic physical and chemical properties General Information

Appearance: Form:

pH-value:

Viscous liquid Color: Yellowish Characteristic Odor: Odor threshold: Not determined.

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined

Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined. Not determined Not determined Auto igniting: Not determined.

Danger of explosion: Explosion limits:

ower: Not determined Not determined Upper: Vapor pressure: Density: Relative density Vapor density Not determined Not determined Not determined. Not determined. Evaporation rate Solubility in / Miscibility with Not determined.

Water: Partly miscible Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined.

kinematic: Not determined.

No further relevant information available Other information

# 10 Stability and reactivity

Reactivity No information known.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions No dangerous reactions known
Conditions to avoid No further relevant information available.
Incompatible materials: Oxidizing agents
Hazardous decomposition products:
Carbon monoxide and carbon dioxide
Potassium oxide

Potassium oxide

#### 11 Toxicological information

Information on toxicological effects

Acute toxicity: No effects known.

LD/LC50 values that are relevant for classification: No data
Skin irritation or corrosion: May cause irritation
Eye irritation or corrosion: May cause irritation
Sensitization: No sensitizing effects known.
Germ cell mutagenicity: No effects known.
Carcinogenicity:

Carcinogenicity: No enects known.

Carcinogenicity:

EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

IARC-3: Not classifiable as to carcinogenicity to humans.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ system toxicity - repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Specific target organ is not known.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Other information (about experimental toxicology): Reproductive effects have been observed on tests with laboratory animals.

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Subacute to chronic toxicity:
Toluene is a skin and eye irritant. Exposure may cause impairment of coordination and reaction time. Chronic poisoning may result in blood, bone marrow or liver injury.
2-Ethylhexanoic acid causes irritation of the eyes and mucous membranes. Irritation may be severe. Causes reproductive effects in laboratory animals.

Subacute to chronic toxicity: No effects known.

Subacute to chronic toxicity: Hexanes may cause skin irritation, CNS effects, lung irritation, headache, dizziness, drowsiness.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

#### 12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxical effects:

Persist Harrietts aquatic organisms

Remark: Harmful to aquatic organisms
Additional ecological information:

Additional ecological information:
General notes:
Do not allow product to reach ground water, water course or sewage system.
Do not allow material to be released to the environment without proper governmental permits.
Danger to drinking water if even small quantities leak into the ground.
May cause long lasting harmful effects to aquatic life.
Avoid transfer into the environment.
Harmful to aquatic organisms
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

#### 13 Disposal considerations

Waste treatment methods
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

# 14 Transport information

UN-N	lumber	
DOT.	IMDG.	IATA

UN1993

UN proper shipping name DOT

Flammable liquids, n.o.s. (Potassium 2-ethylhexanoate) FLAMMABLE LIQUID, N.O.S. (Potassium 2-ethylhexanoate) IMDG, IATA

# Transport hazard class(es)

### DOT



Class Label Class Label IMDG, IATA 3 Flammable liquids.

3 (F1) Flammable liquids



Class

Label

3 Flammable liquids.

Packing group DOT, IMDG, IATA

111

Environmental hazards:

Not applicable

Special precautions for user

Warning: Flammable liquids

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable Transport/Additional information:

Marine Pollutant (DOT):

No

UN "Model Regulation":

UN1993, Flammable liquids, n.o.s. (Potassium 2-ethylhexanoate), 3, III

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms





GHS02 GHS08

Signal word Warning

Hazard statements
H226 Flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 5)

(Contd. of page 4)



# Product name: Potassium 2-ethylhexanoate

Precautionary statements
P280 Wear protective gloves / protective clothing.
P273 Avoid release to the environment.

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National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

SARA Section 313 (specific toxic chemical listings) Substance is not listed.

California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.
This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

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

# 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: International Civil Aviation Organization
ICAO: The concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Instructions by the "International Civil Aviation Organization" (ICAO)
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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
VPUS: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
NP: National Toxicology Program (USA)
NP: National Toxicology Program (USA)
NARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

LISA