

SRC 18 E

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

1.1 Product identifier

Product name: SRC 18 E

INDEX No. 612-108-00-0

CAS-No. 919-30-2

EC No. 213-048-4

REACH Registration No. 01-2119480479-24-0002

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

Identified uses: Catalyst

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distributor Information : Momentive Performance Materials GmbH
Chempark Leverkusen Gebaeude V7
DE - 51368 Leverkusen
Germany

Contact person : MomentiveEMEA.productsteward@momentive.com

Telephone : General information
00800.4321.1000 (Customer Service Centre)

1.4

Emergency telephone number : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44 (0) 1235239671

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Skin corrosion	Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

2.2 Label Elements

Contains: gamma-Aminopropyltriethoxysilane

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Signal Words:

Danger

Hazard Statement(s):

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P310: Immediately call a POISON CENTER/doctor.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, inhalation, vapor	0 %
Acute toxicity, inhalation, dust or mist	0 %

Additional Information: No data available.

2.3 Other hazards No data available.

SECTION 3: Composition/information on ingredients

Chemical nature: Catalyst

3.1 Substances

General information: No data available.
Chemical name
INDEX No.: 612-108-00-0
CAS-No.: 919-30-2
EC No.: 213-048-4
REACH Registration No.: 01-2119480479-24-0002
M-Factor: No data available.

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Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
gamma-Aminopropyltriethoxysilane	50 - <100%	919-30-2	213-048-4	01-2119480479-24-0002	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Wash contaminated clothing before reuse.

Ingestion: If conscious, drink plenty of water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: This material reacts immediately with water in the acid contents of the stomach to produce ethanol.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: DO NOT induce vomiting. Get medical attention immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

SECTION 5: Firefighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other involved materials.

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical. Light brown Alcohol-resistant foam Carbon dioxide

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture: In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: All equipment used when handling the product must be grounded.

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Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use personal protective equipment.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment.
- 6.2 Environmental Precautions:** Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up:** Absorb spillage with suitable absorbent material. Shovel up and place in a container for salvage or disposal.
- 6.4 Reference to other sections:** Remove sources of ignition. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment. Collect and dispose of spillage as indicated in section 13 of the SDS.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing mists or vapors. Wash hands after handling.
- Storage conditions:** Keep container tightly closed. Keep away from sources of ignition - No smoking.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed. Keep away from sources of ignition - No smoking.
- Storage Stability:** Material is stable under normal conditions.
- 7.3 Specific end use(s):** No data available.

SECTION 8: Exposure controls/personal protection

**8.1 Control Parameters
 Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Ethanol	TWA	1.000 ppm 1.920 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

Biological Limit Values None.

**8.2 Exposure controls
 Appropriate Engineering Controls:** Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.

Individual protection measures, such as personal protective equipment

General information: Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Practice good housekeeping.

Eye/face protection: Face shield Safety glasses with side-shields conforming to EN166

Skin protection

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Hand Protection:	Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: vertrieb@kcl.de). Material: 730 Camatril Minimum break through time: 480 min Glove thickness: 0,4 mm Guideline: EN 374
Other:	Safety shoes Wear suitable protective clothing.
Respiratory Protection:	Respiratory protection mask with Filterttype ABEK
Hygiene measures:	Observe good industrial hygiene practices. Wash hands after handling. When using do not eat, drink or smoke. Provide adequate ventilation.
Environmental exposure controls:	No release to wastewater from process as such, wastewater emissions limited to release generated from final equipment cleaning step using water

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	amine like
Odor Threshold:	No data available.
pH:	ca. 7
Freezing point:	No data available.
Boiling Point:	217 °C (1,013 hPa) (No data available.)
Flash Point:	104 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	ca. 13,3 hPa
Vapor density (air=1):	No data available.
Density:	0,943 g/cm ³
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

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SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
10.4 Conditions to avoid:	No data available.
10.5 Incompatible Materials:	Reaction with water or other aqueous media is rapid and exothermic. The addition of small amounts of water (in the range of 2-15%) can produce an exothermic reaction which generates alcohol to the extent that the resulting solution can reach a temperature which exceeds the flash point of the new solution. If a water solution is desired, add the product to water, and not vice versa.
10.6 Hazardous Decomposition Products:	Carbon oxides Nitrogen Oxides Oxides of silicon.

SECTION 11: Toxicological information

General information: Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix: 1.577,89 mg/kg
Specified substance(s)	
gamma-	LD 50 (Rat): 2.830 mg/kg
Aminopropyltriethoxysilane	LD 50 (Rat): 1.570 mg/kg

Dermal

Product:	LD 50 (Rabbit): 4.000 mg/kg (No data available.)
Specified substance(s)	
gamma-	LD 50 (Rabbit): 4.290 mg/kg
Aminopropyltriethoxysilane	

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

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gamma-
 Aminopropyltriethoxysilan
 e LC50 (Rat, 6 h):
 LC50 (Rat, 6 h):

Repeated dose toxicity

Product: No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysilan
 e NOAEL (Rat, Oral, 90 d): 200 mg/kg
 LOAEL (Rat, Oral, 90 d): 600 mg/kg

Skin Corrosion/Irritation:

Product: Causes burns.
 No data available. Corrosive

Specified substance(s)

gamma-
 Aminopropyltriethoxysil
 ane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h):
 Corrosive

**Serious Eye Damage/Eye
 Irritation:**

Product: Corrosive
 No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysil
 ane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h):
 Strongly irritating.

**Respiratory or Skin
 Sensitization:**

Product: No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysil
 ane (Guinea Pig)positive

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysilan
 e Ames-Test: negative
 Chinese Hamster Ovary (CHO): negative
 Chromosomal aberration: negative

In vivo

Product: No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysilan
 e No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

gamma-
 Aminopropyltriethoxysilan
 e No data available.

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Reproductive toxicity

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e No data available.

Other effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e LC50 (Brachydanio rerio, 96 h): > 934 mg/l (OECD Test Guideline 203)

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

gamma-
Aminopropyltriethoxysilan
e EC50 (Daphnia magna, 48 h): 331 mg/l (OECD-Guideline 202)

Chronic Toxicity

Fish

Product: No data available.

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Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 No data available.

Aquatic Invertebrates
Product: No data available.

Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 No data available.

Toxicity to Aquatic Plants
Product: No data available.

Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l
 NOEC (Desmodesmus subspicatus (green algae), 72 h): 1,3 mg/l

12.2 Persistence and Degradability

Biodegradation
Product: No data available.

Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 (28 d): 67 % Not readily degradable. hydrolyses

BOD/COD Ratio
Product No data available.

Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 No data available.

12.3 Bioaccumulative potential
Product: No data available.

Specified substance(s)
 gamma-Aminopropyltriethoxysilane
 Cyprinus carpio, Bioconcentration Factor (BCF): 3,4 (Measured) The product is not bioaccumulating.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
 gamma-Aminopropyltriethoxysilane
 No data available.

12.5 Results of PBT and vPvB assessment: No data available.

gamma-Aminopropyltriethoxysilane
 Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria,
 Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

12.6 Other adverse effects: No data available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: See Section 8 for information on appropriate personal protective equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground.

Disposal methods: Can be incinerated when in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 3267
 14.2 UN Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(gamma-Aminopropyltriethoxysilane)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 Hazard No. (ADR): 80
 Tunnel restriction code: (E)
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

ADN

14.1 UN Number: UN 3267
 14.2 UN Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(gamma-Aminopropyltriethoxysilane)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

RID

14.1 UN Number: UN 3267
 14.2 UN Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(gamma-Aminopropyltriethoxysilane)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant No

IMDG

14.1 UN Number: UN 3267
 14.2 UN Proper Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(gamma-Aminopropyltriethoxysilane)
 14.3 Transport Hazard Class(es)
 Class: 8
 Label(s): 8
 EmS No.: F-A, S-B
 14.4 Packing Group: II

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14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

IATA

14.1 UN Number: UN 3267
 14.2 Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.(gamma-Aminopropyltriethoxysilane)
 14.3 Transport Hazard Class(es):
 Class: 8
 Label(s): 8
 14.4 Packing Group: II
 14.5 Environmental Hazards: Not regulated.
 Marine Pollutant: No

14.6 Special precautions for user: Corrosive Protect from moisture. Keep away from food, foodstuff, acids and bases.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:

not applicable

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	0,1 - 1,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	0,1 - 1,0%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
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gamma-Aminopropyltriethoxysilane	919-30-2	90 - 100%
Ethanol	64-17-5	0,1 - 1,0%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

Inventory Status

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Training information: No data available.

Issue Date: 10.01.2018

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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