## Safety Data Sheet

Revision date: 16.01.2024
Product code: SAA1200

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

### 1.1. Product identifier

Smoc-L-Tyr(OtBu)-OH
Further trade names
potassium (S)-9-((((2-(4-(tert-butoxy)phenyl)-1-carboxyethyl)carbamoyl)oxy)methyl)
-9H-fluorene-2,7-disulfonate, Smoc-Tyr(OtBu)-OH, O-(tert-butyl)-N-
(((2,7-disulfo-9H-fluoren-9-yl)methoxy)carbonyl)-L-tyrosine potassium salt
CAS No:
2442553-00-4

### 1.2. Relevant identified uses of the substance or mixture and uses advised against <br> Use of the substance/mixture

Laboratory chemical. Manufacture of the substance.

## Uses advised against

Do not use for private purposes (household).
Restrictions on use: Pharmaceutical substance
1.3. Details of the supplier of the safety data sheet

Company name:
Street:
Place:
Post-office box:

Telephone:
E-mail:
Contact person:
E-mail:
Internet:
Responsible Department:
1.4. Emergency telephone number:

Iris Biotech GmbH
Adalbert-Zoellner-Straße 1
D-95615 Marktredwitz, Germany
568
D-95605 Marktredwitz, Germany
+49 9231971210
info@iris-biotech.de
Compliance Department Telephone: +499231971210
sds@iris-biotech.de
www.iris-biotech.de
Only available during office hours.
+49 (0)89 19240 (POISON CENTER Munich: 24 h)

## Further Information

This product does not meet the criteria for classification into a hazardous class according to Regulation (EC) No 1272/2008 on the classification, labeling and packaging of substances and mixtures. A safety data sheet is provided which does not fully comply with Article 31 and Annex II of REACH.

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

### 2.2. Label elements

Regulation (EC) No 1272/2008
Precautionary statements
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

## Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none (GHS/CLP criteria are not met.)
Warning - substance not yet tested completely.

### 2.3. Other hazards

Product is not dust explosive in its original delivery form. The addition of particulate matter, however, results in a dust explosion risk.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: $\quad$ C28H27K2NO11S2
Molecular weight:
$695,84 \mathrm{~g} / \mathrm{mol}$

## Relevant ingredients

none (according to Regulation (EC) No 1907/2006 (REACH))

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

## General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
In all cases of doubt, or when symptoms persist, seek medical advice.

## After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

## After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

## After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

### 4.2. Most important symptoms and effects, both acute and delayed <br> No information available. <br> 4.3. Indication of any immediate medical attention and special treatment needed <br> Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Water spray. alcohol resistant foam. Dry extinguishing powder. Sand.
Unsuitable extinguishing media
High power water jet.
5.2. Special hazards arising from the substance or mixture

Non-flammable. Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx). Potassium oxides. Sulphur dioxide (SO2)

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

## Additional information

Usual measures for fire prevention.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

## General advice

Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid contact with skin, eyes and clothes.
Wear personal protection equipment.
In case of fire: Evacuate area.
For non-emergency personnel
Remove all sources of ignition. Provide adequate ventilation.
Use personal protection equipment.
For emergency responders
Wear personal protection equipment (refer to section 8).
Take up mechanically, placing in appropriate containers for disposal. Take up dust-free and set down dust-free.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

## For containment

Avoid dust formation.
For cleaning up
Take up mechanically.

## Other information

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation.
Clear contaminated areas thoroughly.

### 6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13
Treat the recovered material as prescribed in the section on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## Advice on safe handling

Provide adequate ventilation.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid contact with skin, eyes and clothes.
Advice on protection against fire and explosion
Usual measures for fire prevention.
Advice on general occupational hygiene
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Handle and store contents under inert gas. Protect from moisture.
storage temperature: $+2^{\circ} \mathrm{C}-8^{\circ} \mathrm{C}$
Hints on joint storage
No special measures are necessary.

### 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls

## Appropriate engineering controls

The receiver of our product is singularly responsible for adhering to existing laws and regulations.
Individual protection measures, such as personal protective equipment
Eye/face protection
Wear eye/face protection.
Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

## Skin protection

Use of protective clothing.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards
No data available
Environmental exposure controls
Discharge into the environment must be avoided.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
Colour:
Odour:
Odour threshold:
Melting point/freezing point:
Boiling point or initial boiling point and
boiling range:
Flammability: not determined
Lower explosion limits:
Upper explosion limits:
Flash point:
Auto-ignition temperature:
Decomposition temperature:
pH-Value:
Viscosity / kinematic:
Water solubility:
Solubility in other solvents not determined
Dissolution rate: No data available
Partition coefficient n-octanol/water:
Dispersion stability:
Vapour pressure:
Density:
Relative density:
Bulk density:
Relative vapour density:
Particle characteristics:

## solid

white/ whitish /beige
No data available
No data available
No data available
No data available

No data available
No data available
No data available
No data available
No data available
No data available
not applicable
No data available

No data available
No data available
No data available
No data available
No data available
No data available
No data available
No data available

### 9.2. Other information

Information with regard to physical hazard classes
Explosive properties
Product is not dust explosive in its original delivery form. The addition of particulate matter, however, results in a dust explosion risk.
Sustaining combustion:
No data available
Self-ignition temperature
Solid:
No data available not applicable
Oxidizing properties
No data available
Other safety characteristics
Solvent content:
No data available
Viscosity / dynamic:
Flow time:
not applicable
not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under recommended storage conditions

## Safety Data Sheet

Revision date: 16.01.2024

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Protect from moisture.
Keep away from heat.

### 10.5. Incompatible materials

Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.
In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrogen oxides (NOx).
Potassium oxides. Sulphur dioxide (SO2)

## Further information

In case of fire: See chapter 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicocinetics, metabolism and distribution

No data available
Acute toxicity
Based on available data, the classification criteria are not met.
Irritation and corrosivity
Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.
Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
IARC: No component of this product present at levels greater than or equal to $0.1 \%$ is identified as probable, possible or confirmed human carcinogen by IARC.

STOT-single exposure
Based on available data, the classification criteria are not met
STOT-repeated exposure
Based on available data, the classification criteria are not met
Aspiration hazard
Based on available data, the classification criteria are not met.
Information on likely routes of exposure
No data available
Specific effects in experiment on an animal No data available

Additional information on tests
The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
Practical experience
No data available
11.2. Information on other hazards

Endocrine disrupting properties No data available

Further information
RTECS: No data available
Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly

## Safety Data Sheet

Product code: SAA1200
investigated. Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12: Ecological information

### 12.1. Toxicity

Based on available data, the classification criteria are not met.
12.2. Persistence and degradability

No data available
12.3. Bioaccumulative potential

No data available
12.4. Mobility in soil

No data available
12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### 12.7. Other adverse effects

Warning - substance not yet tested completely.
Further information
Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal recommendations
Dispose of waste according to applicable legislation.
Consult the appropriate local waste disposal expert about waste disposal.
Handle contaminated packages in the same way as the substance itself.
Contaminated packaging
Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

Land transport (ADR/RID)
14.2. UN proper shipping name: $\quad$ No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)
14.2. UN proper shipping name: $\quad$ No dangerous good in sense of these transport regulations.

Marine transport (IMDG)
14.2. UN proper shipping name: $\quad$ No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)
14.2. UN proper shipping name: $\quad$ No dangerous good in sense of these transport regulations.
14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:
No
14.6. Special precautions for user

No information available.
14.7. Maritime transport in bulk according to IMO instruments
not applicable

## SECTION 15: Regulatory information

## Safety Data Sheet

Revision date: 16.01.2024
Product code: SAA1200

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <br> EU regulatory information <br> Information according to Directive Not subject to 2012/18/EU (SEVESO III) <br> 2012/18/EU (SEVESO III): <br> Additional information <br> Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) <br> National regulatory information <br> Water hazard class (D): 3 - highly hazardous to water

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

Abbreviations and acronyms<br>ADR: Accord relatif au transport international des marchandises dangereuses par route<br>(Agreement concerning the International Carriage of Dangerous Goods by Road).<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonized System of Classification and Labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>ELINCS: European List of Notified Chemical Substances<br>CAS: Chemical Abstracts Service<br>LC50: Lethal concentration, 50\%<br>LD50: Lethal dose, 50\%<br>CLP: Classification, labelling and Packaging<br>REACH: Registration, Evaluation and Authorization of Chemicals<br>GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals<br>UN: United Nations<br>CAS: Chemical Abstracts Service<br>DNEL: Derived No Effect Level<br>DMEL: Derived Minimal Effect Level<br>PNEC: Predicted No Effect Concentration<br>ATE: Acute toxicity estimate<br>LL50: Lethal loading, 50\%<br>EL50: Effect loading, 50\%<br>EC50: Effective Concentration 50\%<br>ErC50: Effective Concentration 50\%, growth rate<br>NOEC: No Observed Effect Concentration<br>BCF: Bio-concentration factor<br>PBT: persistent, bioaccumulative, toxic<br>vPvB: very persistent, very bioaccumulative<br>RID: Regulations concerning the international carriage of dangerous goods by rail<br>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways<br>(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation<br>intérieures)<br>EmS: Emergency Schedules<br>MFAG: Medical First Aid Guide<br>IATA: International Air Transport Association<br>ICAO: International Civil Aviation Organization<br>MARPOL: International Convention for the Prevention of Marine Pollution from Ships<br>IBC: Intermediate Bulk Container<br>SVHC: Substance of Very High Concern<br>For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Smoc-L-Tyr(OtBu)-OH

Revision date: 16.01.2024
Product code: SAA1200

## Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

