

SAFETY DATA SHEET



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Material	GSK2203946A
Synonym(s)	1-[[[3-(5-OXO-1,4,2-DIOXAZOL-3-YL)PROPANOYL]AMINO]METHYL]CYCLOHEXANEACETIC ACID
CAS Number	Unassigned
Molecular Formula	C14-H20-N2-O6
Molecular Weight	312.325
Company Name	<p>GlaxoSmithKline, Corporate Environment, Health & Safety 980 Great West Road Brentford, Middlesex TW8 9GS UK</p> <p>UK General Information: +44-20-8047-5000 Transport Emergency (EU) +44-1865-407333 Medical Emergency +1-612-221-3999, Ext 221 Information and Advice: US number, available 24 hours Multi-language response</p> <p>GlaxoSmithKline, Corporate Environment, Health & Safety One Franklin Plaza, 200 N 16th Street Philadelphia, PA 19102-1225 US</p> <p>US General Information: +1-888-825-5249 Transport Emergency (non EU) +1-703-527-3887 US number, available 24 hours Multi-language response</p>

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	Percent	EC-No.
GSK2203946A	Unassigned	100	

3. HAZARDS IDENTIFICATION

Fire and Explosion	<p>Assume that this material is capable of sustaining combustion.</p> <p>Assume that this material is capable of producing a dust explosion if ignited as a dust cloud.</p> <p>Assume that this material is capable of being ignited by an electrostatic discharge.</p>
Health	<p>Caution - The toxicological properties of this material have not been fully investigated.</p> <p>Exposure might occur via inhalation; ingestion; skin; eyes.</p> <p>Possible effects of overexposure in the workplace include: irritation. May be absorbed through the skin.</p>
Environment	<p>No information is available about the potential of this material to produce adverse environmental effects.</p>

4. FIRST-AID MEASURES

Ingestion	Never attempt to induce vomiting. Do not attempt to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. Wash out the mouth with water. If the exposed subject is fully conscious, give plenty of water to drink. Obtain medical attention.
Inhalation	Using appropriate personal protective equipment, move exposed subject to fresh air. If breathing is difficult or ceases, ensure and maintain ventilation. Give oxygen as appropriate. The exposed subject should be kept warm and at rest. Obtain medical attention in cases of known or possible over exposure, or with symptoms including chest pain, difficulty breathing, loss of consciousness or other adverse effects, which may be delayed.
Skin Contact	Using appropriate personal protective equipment, remove contaminated clothing and flush exposed area with large amounts of water. Obtain medical attention if skin reaction occurs, which may be immediate or delayed.
Eye Contact	Wash immediately with clean and gently flowing water. Continue for at least 15 minutes. Obtain medical attention.

NOTES TO HEALTH PROFESSIONALS

Medical Treatment	Treat according to locally accepted protocols. For additional guidance, refer to the local poison control information centre.
Medical Conditions Caused or Aggravated by Exposure	None for occupational exposure.
Health Surveillance Procedures	Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.
Antidotes	No specific antidotes are recommended.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards	The flammability of this material has not been determined. As with many organic dusts, explosions can occur if this material is dispersed as a dust cloud and ignited.
Extinguishing Media	Water, dry powder or foam extinguishers are recommended. Carbon dioxide extinguishers may be ineffective.
Special Firefighting Procedures	Since toxic, corrosive or flammable vapours might be evolved from fires involving this material, self contained breathing apparatus and full protective equipment are recommended for firefighters. Move containers from the fire area if possible without increased personal risk. If possible, contain and collect firefighting water for later disposal.
Hazardous Combustion Products	Toxic, corrosive or flammable thermal decomposition products are expected when the material is exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Fence or cordon the affected area and do not allow individuals to touch or walk through the spilled material unless wearing appropriate protective clothing. Avoid dust generation.
Environmental Precautions	Prevent entry into waterways, sewers, surface drainage systems and poorly ventilated areas. If spill is outdoors, cover with plastic sheet to minimise spreading or contact with rain.
Clean-up Methods	Collect and place it in a suitable, properly labelled container for recovery or disposal. After all solid or absorbent material has been collected, the area should be vacuumed with HEPA filter-equipped apparatus.
Decontamination Procedures	No specific decontamination or detoxification procedures have been identified for this material. Consider use of water, detergent solutions, or other soluble solvents (if specified in Section 9 of this SDS), for clean-up and decontamination operations.

7. HANDLING AND STORAGE

HANDLING

- General Requirements** Avoid dispersion as a dust cloud. Depending upon the scale of operation, use of appropriate exhaust ventilation is recommended to provide routine control of fire and explosion hazards during handling of this material.
- Ignition Controls** Bond and earth (ground) all plant and equipment to ensure that no isolated conductors are present. Isolated conductors can accumulate sufficient electrostatic charge to produce discharges of many hundreds of milli-Joules.

STORAGE

Keep in tightly closed containers or packages away from moisture and away from sources of ignition.
Avoid prolonged storage at elevated temperatures (greater than room temperature, approximately 20 degrees C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

- GSK Occupational Hazard Category** 3 PROVISIONAL

ENGINEERING CONTROLS

- Exposure Controls** The hygiene guide for this material is >10 to 100 mcg/m³. An Exposure Control Approach (ECA) is established for operations involving this material based upon the OEL/Occupational Hazard Category and the outcome of a site- or operation-specific risk assessment. Refer to the Exposure Control Matrix for more information about how ECA's are assigned and how to interpret them.
- Containment** Open handling is not recommended. Consider segregating operations, use of enclosures and sealed transfer systems.
- Ventilation** Local exhaust ventilation (LEV) should be used in conjunction with other control measures as a means of removing material incidentally released.
- Administrative** Entry to the working area should be controlled. Doors with interlocks may be needed for materials airlocks and locker rooms. Only equipment and supplies necessary for job activities should be taken into working area.

PERSONAL PROTECTIVE EQUIPMENT

- Eye Protection** Wear approved safety glasses with side shields or cover goggles if eye contact is possible.
- Gloves** The selection of gloves for a specific activity must be based on the material's properties and on possible permeation and degradation that may occur under the circumstances of use. Glove selection must take into account any solvents and other hazards present. Potential allergic reactions can occur with certain glove materials (e.g. Latex) and therefore these should be avoided. Care must be exercised if insufficient data are available and further guidance should be sought from your local EHS department.
- Respirators** If respiratory protective equipment (RPE) is used, the type of RPE will depend upon air concentrations present, required protection factor as well as hazards, physical properties and warning properties of substances present.
- Other Equipment or Procedures** Follow all local regulations if personal protective equipment (PPE) is used in the workplace. Consider control procedures for maintenance, cleaning and emergencies. Wear appropriate clothing to avoid skin contact. An eye wash station should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical Form** Solid.

Dust Electrostatic Properties

- Minimum Ignition Energy (Cloud)** No studies have been conducted.

Dust Explosion Properties

- Kst** No studies have been conducted.

Oxygen Balance

-164 (This material is considered to be of low energy hazard potential).

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Partition Coefficient - Octanol/Water (Log Pow) -0.17 (Calculated).

Train Fire No studies have been conducted.

10. STABILITY AND REACTIVITY

Conditions to Avoid Avoid direct sunlight, conditions that might generate heat and dispersion as a dust cloud.

11. TOXICOLOGY INFORMATION

Target Organ Effects No specific target organ effects have been identified.

Routes of Exposure

- Oral Toxicity** No studies have been conducted.
- Inhalation Toxicity** Overexposure may result in irritation of the respiratory tract.
- Skin Effects** Irritation might occur following direct contact. May cause a rash with reddening, itching, pain and swelling. May be absorbed through the skin. Assessment based upon the physico-chemical properties of this material.
- Eye Effects** Irritation might occur following direct contact with eyes. May cause reddening, swelling and pain.

Sensitisation Structure activity analysis did not identify any sub-structural elements known to induce sensitisation.

Genetic Toxicity Structure activity analysis did not identify any sub-structural elements known to induce genetic toxicity.

Carcinogenicity No studies have been conducted and this material is not listed as a carcinogen by GSK, IARC, NTP or US OSHA. Structure activity analysis did not identify any sub-structural elements known to induce cancer.

Reproductive Effects Insufficient information available to classify for reproductive toxicity.

Other Adverse Effects None known for this material in humans.

12. ECOLOGICAL INFORMATION

Summary No information is available about the potential of this material to produce adverse environmental effects. Local regulations and procedures should be consulted prior to environmental release.

PERSISTENCE/DEGRADATION

Log Kow -.17 (Calculated).

13. DISPOSAL CONSIDERATIONS

Disposal Recommendations Collect for recycling or recovery if possible. The recommended method of disposal is incineration. Wherever possible, disposal should be in an on-site licenced chemical incinerator, if allowed by the incinerator licence or permit. If no on-site incinerator is available, dispose of material in a licenced commercial chemical incinerator.

Regulatory Requirements Observe all local and national regulations when disposing of this material.

14. TRANSPORT INFORMATION

The SDS should accompany all shipments for reference in the event of spillage or accidental release. Only authorised persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous goods for transport.

UN Classification and Labelling

Transport Information Transportation and shipping of this material is not restricted. It has no known, significant hazards requiring special packaging or labelling for air, maritime, US or European ground transport purposes.

15. REGULATORY INFORMATION

The information included below is an overview of the major regulatory requirements. It should not be considered to be an exhaustive summary. Local regulations should be consulted for additional requirements.

EU Classification and Labelling

None.

US OSHA Standard (29 CFR Part 1910.1200)

Classification This material is not classified as hazardous according to the OSHA Hazard Communication Standard.

Target Organ Statement No specific target organ effects known.

Other US Regulations

TSCA Status Exempt

16. OTHER INFORMATION

References GSK Hazard Determination

SDS Version Number 1

SDS Sections Updated

Sections

COMPOSITION / INFORMATION ON INGREDIENTS

EXPOSURE CONTROLS / PERSONAL PROTECTION

IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF COMPANY

PHYSICAL AND CHEMICAL PROPERTIES

Subsections

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.