



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Name

**AZD6244**

### Alternative Names

AZD6244 Free base

**Address / Phone Number** : **AstraZeneca**  
PO BOX 15437  
Wilmington, Delaware 19850-5437  
Phone (24 hr.) Medical : (800) 236-9933  
Chemtrec : (800) 424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No. : 606143-52-6  
Use : Pharmaceutical active: MEK inhibitor

HAZARDOUS INGREDIENT(S)	%	CAS No.
AZD6244		606143-52-6

NON HAZARDOUS INGREDIENT(S)	%	CAS No.
Not applicable		

## 3. HAZARDS IDENTIFICATION

Form : crystalline powder  
Color : Off-white to peach

Caution - This material has not been fully tested and is for research and development purposes only. Risk of serious damage to eyes. May cause sensitization by skin contact. Ingestion studies in animals have shown that repeated doses produce adverse effects on the gastrointestinal tract. May cause genotoxicity following exposure to high doses. The mechanism of action indicates possible teratogenic effects. The risk to humans is expected to

be low under normal conditions of handling and use. May cause diarrhoea, skin rashes and peripheral and facial oedema.

#### 4. FIRST AID MEASURES

- Inhalation : Remove patient from exposure. Obtain medical attention if ill effects occur.
- Skin Contact : Remove contaminated clothing. After contact with skin, wash immediately with plenty of water. If symptoms (irritation or blistering) occur obtain medical attention.
- Eye Contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
- Ingestion : Wash out mouth with water and give 200-300ml of water to drink. Do NOT induce vomiting as a First-Aid measure. Obtain immediate medical attention.

##### Note to Physicians

Symptomatic treatment and supportive therapy as indicated. For further information consult the Local National Poisons Information Services.

#### 5. FIRE FIGHTING MEASURES

If involved in a fire, it may burn and emit noxious and toxic fumes.

- Extinguishing Media (suitable) : water spray, foam, dry chemical or CO<sub>2</sub>.
- Extinguishing Media (unsuitable) : -
- Fire Fighting Protective Equipment : A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

#### 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions : Protect against dust. Ensure suitable personal protection (including respiratory protection) during removal of spillages.
- Environmental Precautions : Prevent entry into drains, sewers or watercourses.
- Clean Up Methods : Clear up spillages. Transfer to a container for disposal. Wash the spillage area with water.

#### 7. HANDLING AND STORAGE

- Handling : Control dust formation. Do not breathe dust. Avoid contact

with skin and eyes. The material can form flammable dust clouds in air. Dust clouds may be extremely sensitive to ignition by electrostatic discharge and other ignition sources. Ensure good earthing of equipment and personnel.

- Storage : This material is photosensitive. Keep container tightly closed. Protect from light.
- Storage Temperature : 68 - 77 °F

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls : Atmospheric levels should be controlled using the principles of good occupational hygiene practice as specified in the workplace risk assessment.

### Occupational Exposure Limits

#### HAZARDOUS INGREDIENT(S)

#### TWA

#### STEL/CEILING(C)

No ACGIH TLV or  
OSHA PEL assigned.

- Personal Precautions : Selection of personal protective equipment and procedures for use should be based on the workplace risk assessment and local requirements. Respiratory protective equipment and gloves etc. should be changed at appropriate intervals as specified in the workplace risk assessment and in accordance with manufacturers information. Factors that affect breakthrough time are: Concentration of the material and duration of exposure, permeability, contact temperature, etc
- Respirators : NIOSH/MSHA approved respiratory protection device consistent with the work place risk assessment. Consult a qualified safety and health professional for additional guidance, as needed.
- Protective Clothing : Impervious clothing and gloves
- Eye Protection : Wear chemical tight goggles.
- Other Protective Equipment : Eyewash station in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : crystalline powder
- Color : Off-white to peach
- Molecular Weight : 458 g/mol
- Molecular Formula : C<sub>17</sub>H<sub>15</sub>BrClFN<sub>4</sub>O<sub>3</sub>
- Melting Point : 235 °C
- Solubility (Water) : marginally soluble 274 mg/l at pH1

Solubility (Water)	:	insoluble at pH 7.4
Solubility (Water)	:	slightly soluble > 2,000 mg/l at pH13
Partition Coefficient (Log Pow)	:	3.88
Dissociation constant (pKa):	:	2.7
	:	8.2

## 10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended conditions.
Hazardous Reactions	:	None known.
Hazardous Decomposition	:	None known.
Product(s)	:	

## 11. TOXICOLOGICAL INFORMATION

The toxicology of this material is still under investigation.

Inhalation	:	May cause effects as described under long term.
Skin Contact	:	May cause sensitization by skin contact. It is a skin sensitiser in animal tests. Unlikely to be corrosive to the skin.
Eye Contact	:	Risk of serious damage to eyes.
Ingestion	:	May cause effects as described under long term. Oral Median Lethal Dose (rat) > 300 mg/kg May cause diarrhoea, skin rashes and peripheral and facial oedema.
Long Term Exposure	:	Ingestion studies in animals have shown that repeated doses produce adverse effects on the gastrointestinal tract., Preliminary studies in animals have shown that repeated doses may cause effects on blood components., May cause genotoxicity following exposure to high doses., The reproductive effects of this substance have not been assessed, however, the mechanism of action suggests potential for teratogenic effects., The risk to humans is expected to be low under normal conditions of handling and use., The carcinogenic properties of this substance are not known.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	:	No information available.
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### 13. DISPOSAL CONSIDERATIONS

Chemical Disposal	:	Disposal should be in accordance with local, state or national legislation.
Disposal Method	:	AstraZeneca recommends disposal of waste material via high-temperature incineration.
Contaminated Packaging	:	Empty container will retain residue. Observe all hazard precautions.

### 14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

### 15. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: This product is a drug and is exempt from TSCA regulation when manufactured, processed or distributed in commerce for use as a drug. CERCLA and SARA Regulations (40 CFR 302,355,370 and 372): This product does not contain any chemicals subject to applicable reporting requirements. Other Determined Regulations: California Proposition 65: This product does not contain a listed chemical. Discarded product is not considered a "hazardous waste" under RCRA, 40 CFR 261.

### 16. OTHER INFORMATION

The following sections contain revisions or new statements :  
3, 11, 15

This Material Safety Data Sheet was prepared in accordance with ANSI Standard Z400.1 1993, as modified 1998.

#### GLOSSARY

COM : In-house occupational exposure limit

TLV	:	Threshold Limit Value (ACGIH)
TLV-C	:	Threshold Limit Value – Ceiling Limit (ACGIH)
Sk	:	Can be absorbed through skin, thus contributing to systemic effects
Sen	:	Capable of causing respiratory sensitisation

This Glossary is applicable to substances for which Occupational Exposure Limits are assigned

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Company extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any third party use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source of hazard information.