

# Material Safety Data Sheet



ACTIDIONE AR

VERSION : 01  
DATE OF ISSUE :02-12-2016  
SUPERSEDES : Nil

Product Code : 21160

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name** : ACTIDIONE AR

**Product code** : 21160

**Identification of the product** : Actidione

CAS No : 66- 81- 9

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

**Use** : Industrial. For professional use only.

### **1.3. Details of the supplier of the safety data sheet**

**Company identification** : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

## **2. Hazards identification**

### **2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Reproductive toxicity, H360D

Category 1B

Acute toxicity (oral), H300

Category 1

Germ cell mutagenicity, H341

Category 2

Hazardous to the aquatic H411

environment — Chronic

Hazard, Category 2

Full text of classification categories and H statements : see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Muta.Cat.3; R68

Repr.Cat.2; R61

T+; R28

N; R51/53

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

### **2.2. Label elements**

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## Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display

Symbol(s) : T : Very toxic

N : Dangerous for the environment



**R Phrase(s):**R61: May cause harm to unborn child.

R28: Very toxic in contact with skin.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s) :**S53: Avoid exposure – obtain special instruction before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61: avoid release to the environment . refer to special instruction/safety data sheets.

### Hazard pictograms :



GHS06 GHS08 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H300 - Fatal if swallowed

H341 - Suspected of causing genetic defects

H360D - May damage the unborn child

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P264 - Wash hands thoroughly after handling

P273 - Avoid release to the environment

P301+P310 - IF SWALLOWED: Immediately call a doctor

P308+P313 - IF exposed or concerned: Get medical advice/attention

P280 - Wear protective gloves, protective clothing, eye protection, face protection

### 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

3.1. Substance: ACTIDIONE AR

CAS No : 66- 81- 9

Substance.

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Contains no other components or impurities which will influence the classification of the product.

## **4. First aid measures**

### **4.1. Description of first aid measures**

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries : May damage the unborn child. Suspected of causing genetic defects.

Symptoms/injuries after ingestion : Fatal if swallowed.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## **5. Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

### **5.2. Special hazards arising from the substance or mixture**

No additional information available

### **5.3. Advice for firefighters**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **6. Accidental release measures**

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

#### **6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

#### **6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

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## **6.2. Environmental precautions**

Toxic to aquatic life with long lasting effects.

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

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

## **6.4. Reference to other sections**

No additional information available

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### **7.3. Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

No additional information available

### **8.2. Exposure controls**

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Odour threshold** : No data available

**pH** : No data available

**Relative evaporation rate (butylacetate=1)** : No data available

**Melting point** : 120 °C

**Freezing point** : No data available

**Boiling point** : No data available

**Flash point** : No data available

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**Auto-ignition temperature** : No data available  
**Decomposition temperature** : No data available  
**Flammability (solid, gas)** : No data available  
**Vapour pressure** : No data available  
**Relative vapour density at 20 °C** : No data available  
**Relative density** : No data available  
**Solubility** : Water: Slightly soluble  
**Log Pow** : 0.55  
**Viscosity, kinematic** : No data available  
**Viscosity, dynamic** : No data available  
**Explosive properties** : No data available  
**Oxidising properties** : No data available  
**Explosive limits** : No data available  
**9.2. Other information**  
No additional information available

## **10. Stability and reactivity**

### **10.1. Reactivity**

No additional information available

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

No additional information available

### **10.4. Conditions to avoid**

Air contact. Moisture.

### **10.5. Incompatible materials**

No additional information available

### **10.6. Hazardous decomposition products**

No additional information available

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Oral: Fatal if swallowed.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : Not classified

Reproductive toxicity : May damage the unborn child.

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Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified  
Potential adverse human health effects and symptoms : Fatal if swallowed.

## **12. Ecological information**

### **12.1. Toxicity**

Ecology - water : Toxic to aquatic life with long lasting effects.

### **12.2. Persistence and degradability**

#### **Actidione AR (66-81-9)**

Persistence and degradability May cause long-term adverse effects in the environment.

### **12.3. Bioaccumulative potential**

#### **Actidione AR (66-81-9)**

Log Pow 0.55

### **12.4. Mobility in soil**

No additional information available

### **12.5. Results of PBT and vPvB assessment**

No additional information available

### **12.6. Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Ecology - waste materials : Hazardous waste due to toxicity.

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### **14.1. UN number**

UN-No. (ADR) : 2811

UN-No. (IMDG) : 2811

UN-No.(IATA) : 2811

UN-No.(ADN) : 2811

UN-No. (RID) : 2811

### **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (ADN) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (RID) : TOXIC SOLID, ORGANIC, N.O.S.

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Transport document description (ADR) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, I, (C/E), ENVIRONMENTALLY HAZARDOUS  
Transport document description (IMDG) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, I, ENVIRONMENTALLY HAZARDOUS  
Transport document description (ADN) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, I, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, I, ENVIRONMENTALLY HAZARDOUS

**14.3. Transport hazard class(es)**  
**ADR:**Transport hazard class(es) (ADR) : 6.1  
Danger labels (ADR) : 6.1  
**IMDG:**Transport hazard class(es) (IMDG) : 6.1  
Danger labels (IMDG) : 6.1  
**IATA:**Transport hazard class(es) (IATA) : 6.1  
Hazard labels (IATA) : 6.1  
**AND:**Transport hazard class(es) (ADN) : 6.1  
Danger labels (ADN) : 6.1  
**RID:**Transport hazard class(es) (RID) : 6.1  
Danger labels (RID) : 6.1

**14.4. Packing group**  
Packing group (ADR) : I  
Packing group (IMDG) : I  
Packing group (IATA) : I  
Packing group (ADN) : I  
Packing group (RID) : I

**14.5. Environmental hazards**  
Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

**14.6. Special precautions for user**  
**- Overland transport**  
Classification code (ADR) : T2  
Special provision (ADR) : 274, 614  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E5  
Packing instructions (ADR) : P002, IBC07  
Mixed packing provisions (ADR) : MP18



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Portable tank and bulk container instructions (ADR) : T6  
Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : S10AH, L10CH  
Tank special provisions (ADR) : TU15, TE19  
Vehicle for tank carriage : AT  
Transport category (ADR) : 1  
Special provisions for carriage - Packages (ADR) : V10  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV1, CV13, CV28  
Special provisions for carriage - Operation (ADR): S9, S14  
Hazard identification number (Kemler No.) : 66  
Orange plates : Tunnel restriction code (ADR) : C/E  
EAC code : 2X  
**- Transport by sea**  
Special provision (IMDG) : 274  
Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E5  
Packing instructions (IMDG) : P002  
IBC packing instructions (IMDG) : IBC99  
Tank instructions (IMDG) : T6  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-A  
Stowage category (IMDG) : B  
MFAG-No : 151  
**- Air transport**  
PCA Excepted quantities (IATA) : E5  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : 666  
PCA max net quantity (IATA) : 5kg  
CAO packing instructions (IATA) : 673  
CAO max net quantity (IATA) : 50kg  
Special provision (IATA) : A3, A5



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ERG code (IATA) : 6L

## - Inland waterway transport

Classification code (ADN) : T2

Special provisions (ADN) : 274, 614, 802

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E5

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

## - Rail transport

Classification code (RID) : T2

Special provision (RID) : 274, 614

Limited quantities (RID) : 0

Excepted quantities (RID) : E5

Packing instructions (RID) : P002, IBC07

Mixed packing provisions (RID) : MP18

Portable tank and bulk container

instructions (RID) : T6

Portable tank and bulk container special

provisions (RID) : TP33

Tank codes for RID tanks (RID) : S10AH, L10CH

Special provisions for RID tanks (RID) : TU15, TU38, TE22

Transport category (RID) : 1

Special provisions for carriage – Packages

(RID) : W10

Special provisions for carriage – Loading

and unloading (RID) : CW13, CW28, CW31

Hazard identification number (RID) : 66

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## 15. Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Actidione AR is not on the REACH Candidate List

Actidione AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

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AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 890)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

## Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## 15.2. Chemical safety assessment

No additional information available

## 16. Other information

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

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## End of document

Prepared by: MOLYCHEM (INDIA)

For questions contact: MOLYCHEM


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