DEAC

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DEAC

Chemical name: Diethylaluminium Chloride

Use of substance/preparation: Chemical intermediate, Co-Catalyst for olefin polymerization

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!
PYROPHORIC
REACTS VIOLENTLY WITH WATER, LIBERATING HIGHLY FLAMMABLE GAS.
SPONTANEOUSLY FLAMMABLE IN AIR.
CAUSES SEVERE BURNS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	% BY WEIGHT
Diethylaluminium chloride	96-10-06	

4. FIRST AID MEASURES

Swallowing

Obtain medical attention immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air. If breathing is difficult, oxygen may be given by qualified personnel. If breathing has stopped, give artificial respiration. Obtain medical attention immediately.

Skin contact

Immediately flush skin thoroughly with water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing. Obtain medical attention immediately. Do not remove clothing which adheres to burned tissue.

Eye contact

Obtain medical attention immediate ly. Immediately flush with large quantities of water on site for 20 to 30 minutes. The eyelids should be held open and away from the eyeball to ensure that all surfaces are flushed thoroughly. Call a physcian. Continue water flush up to one hour during transport to a medical facility.

Notes to physician

Symptomatic treatment as in case of burns.
Please, note our recommendations on treatment: "Aluminium alkyls - properties and handling"

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5. FIRE-FIGHTING MEASURES

NFPA CLASSIFICATION

Health: 3 **Flammability: 4** **Reactivity: 3** **Special provisions: W**

Hazardous combustion products
Combustible gases (olefines, hydrogen). Fume.

Special fire fighting procedures
PYROPHORIC
Reacts violently with water, liberating highly flammable gas.
Caution: covered product is still reactive.

Special protective equipment for firefighters
Use fireproof clothing.
Wear heat resistant clothing, self contained breathing apparatus.

Extinguishing media

Suitable:

- fire blanket
- dry sand
Carbon dioxide.
(in case of small fires)
- dry powder
- nitrogen
- vermiculite
(in case of larger fires)
Water.
- foam

Unsuitable:

Unusual fire and explosion hazards
Formation of fumes which irritate the respiratory tract., In case of a fire aside from the major combustion products carbon dioxide and carbon monoxide other harmful
gases and vapors may be formed., Especially the formation of hydrogen chloride must be taken into account.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Eliminate sources of ignition., Avoid inhalation of vapors., Avoid contact with skin and eyes.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection

None required in normal use., EMERGENCY USE: Air supplied respirators are required in oxygen-deficient atmospheres. Before entering area you must check for
flammable or oxygen-deficient atmospheres.

Hand protection / protective gloves
Flame resistant protective gloves

Eye protection
Full face safety goggles., Full face shield.

Skin protection
Fireproof impregnated clothing

Other protective equipment
A fire-proof suit or a full-body aluminized suit are recommended if there is a potential for exposure to large quantities of product

Industrial hygiene measures
Do not smoke at work., Remove contaminated clothing and clean it.

ENGINEERING CONTROLS

Ventilation
This product should be stored in closed equipment to keep vapors in and keep moisture out.

Component	Type	Value	Remark
Aluminum Alkyls as Aluminum	TWA, OSHA & ACGIH	2.0 ml/m^3	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Liquid
Boiling point	127 ℃ at STP unless specified below.at 67 hPa
Solidification	-70 ℃
Density	0.97 g/cm3 at 20 ℃
Flash point	PYROPHORIC
Thermal decomposition	ca. 170 ℃
Dynamic viscosity	1.6 mPa.s at 20 ℃

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions. See also section 7.

Incompatible materials: Air. Water.

Hazardous combustion products:
Combustible gases (olefines, hydrogen). Fume.

OTHER PROPERTIES

DEAC

11. TOXICOLOGICAL INFORMATION

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH
Due to the high reactivity no toxicological tests can be performed.
Causes burns.
The fumes resulting from incineration or decomposition of the product may lead to irritation or inflammation of the respiratory system.

12. ECOLOGICAL INFORMATION

Additional information
Due to the high reactivity no ecotoxicological tests can be performed.

13. DISPOSAL CONSIDERATIONS

General: Dilute with petroleum or Diesel oil to a maximum 10 % solution and burn in a permitted hazardous waste incinerator.

Non-cleaned packages
Rinse with dry inert hydrocarbon., Dispose of washing solution in the same way as product.

14. TRANSPORT INFORMATION

DOT Classification

Proper shipping name:	ALUMINUM ALKYL HALIDES
Class:	4.2,(SPONTANEOUSLY COMBUSTIBLE)
Subsidiary risk:	4.3
UN ID #:	UN3394
Packing group:	I
Technical description	DIETHYLALUMINIUM CHLORIDE

IMDG Classification

Proper shipping name:	Organometallic substance, liquid, pyrophoric, water-reactive
Class:	4.2
Subsidiary risk:	4.3
UN ID #:	UN 3394
Packing group:	I
Technical description	(DIETHYLALUMINIUM CHLORIDE)

ICAO Classification
FORBIDDEN BY AIR.

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.
Components present in this product at a level which could require reporting under the statute are:

Chemical name	**Diethylaluminium chloride**	**CAS# 96-10-6**	**Max weight % 100.00**

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name :Diethylaluminium chloride	**CAS# 96-10-6**	**New Jersey TS Number**

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CHEMICAL INVENTORY

Canada:	**This product is on the DSL.**
Europe:	**This product is on the EINECS inventory.**
United States:	**The ingredients of this product are on the TSCA inventory.**
Australia:	**This product is on the AICS inventory.**
China:	**This product is on the IECSC Inventory.**
Japan:	**This product is on the ENCS inventory.**
Korea:	**This product is listed on the Existing Chemicals List (ECL).**
Philippines:	**This product is on the PICCS.**

16. OTHER INFORMATION

FURTHER INFORMATION
MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

HMIS RATING
Health: 3 **Flammability: 4** **Reactivity: 3**

STP	Standard temperature and pressure
W/W	Weight/Weight
1 (HMIS)	0 (HMIS)
2 (HMIS)	Slight hazard
3 (HMIS)	Moderate hazard
4 (HMIS)	Serious hazard
X (HMIS)	Severe hazard

PPI: Personal protection rating to be supplied by user depending on use conditions

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