

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

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

1.1 Product identifier

Trade name	: JEFFLINK® 136
Substance name	: 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine
CAS-No.	: 90530-15-7
EC-No.	: 292-053-3

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

Use of the Substance/Mixture	: Component of a Polyurethane System.
------------------------------	---------------------------------------

1.3 Details of the supplier of the safety data sheet

Company	: Huntsman Holland BV
Address	: Merseyweg 10 3197 KG Botlek-Rotterdam Netherlands
Telephone	: +31 181 299111
Telefax	: +31 181 293900
E-mail address of person responsible for the SDS	: Global_Product_EHS_HPP@huntsman.com

1.4 Emergency telephone number

Emergency telephone number	: EUROPE: +32 35 75 1234 USA: +1 800 424 9300 ASIA: +65 6542 9595 China: +86 20 39377888 +86 532 83889090 India: + 91 22 42 87 5333 Australia: 1 800 786 152 New Zealand: 0 800 767 437 Berlin: 0049 30 19 24 0 & 0049 30 30 68 6 7 11 Bonn: 0049 228 19 27 0 & 0049 228 28 7 3 32 11 Erfurt: 0049 361 73 07 30 Freiburg: 0049 761 16 24 0 Göttingen: 0049 51 19 24 0 & 0049 551 38 31 80 Homburg: 0049 6841 19 24 0 Mainz: 0049 6131 19 24 0 & 0049 6131 23 24 66 München: 0049 89 19 24 0 Nürnberg: 0049 911 39 8 2 45 1
----------------------------	--

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	28.03.2018	400001013069	06.03.2017
			Date of first issue: 06.03.2017

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Sub-category 1A	H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	28.03.2018	400001013069	06.03.2017
			Date of first issue: 06.03.2017

Substance name : 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine

EC-No. : 292-053-3

Chemical nature : Amines

Hazardous components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine	90530-15-7 292-053-3	>= 90 - <= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No data is available on the product itself.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information.,
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	: Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Keep in properly labelled containers.
Advice on common storage	: For incompatible materials please refer to Section 10 of this SDS.
Storage class (TRGS 510)	: 8A, Combustible, corrosive hazardous materials
Further information on storage stability	: Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s)	: No data available
-----------------	---------------------

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines
Filter type	: Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow
Odour	: amine-like
Odour Threshold	: No data is available on the product itself.
pH	: 8,5 - 11
Freezing point	: No data is available on the product itself.
Melting point	: No data is available on the product itself.
Boiling point	: > 200 °C
Flash point	: > 100 °C Method: closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	28.03.2018	400001013069	06.03.2017
			Date of first issue: 06.03.2017

Burning rate	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data is available on the product itself.
Lower explosion limit / Lower flammability limit	: No data is available on the product itself.
Vapour pressure	: 5 hPa (50 °C)
Relative vapour density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 0,99 g/cm ³
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Decomposition temperature	: No data is available on the product itself.
Viscosity	
Viscosity, dynamic	: 500 mPa.s (25 °C)
Explosive properties	: No data is available on the product itself.
Oxidizing properties	: No data is available on the product itself.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Oxidizing agents
Amines

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine:

Acute oral toxicity : LD50 : 2 600 mg/kg

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation

Components:

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine:

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Components:

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine:

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine:

Result: The product is a skin sensitiser, sub-category 1A.

Assessment: No data available

Germ cell mutagenicity

Genotoxicity in vitro : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

Genotoxicity in vivo : No data available

Carcinogenicity

No data available

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

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

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	28.03.2018	400001013069	06.03.2017
			Date of first issue: 06.03.2017

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

IATA

14.1 UN number	: UN 2735
14.2 UN proper shipping name	: Amines, liquid, corrosive, n.o.s. (2-propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: II
Labels	: Corrosive
Packing instruction (cargo aircraft)	: 855
Packing instruction (passenger aircraft)	: 851

IMDG

14.1 UN number	: UN 2735
14.2 UN proper shipping name	: AMINES, LIQUID, CORROSIVE, N.O.S. (2-propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: II
Labels	: 8
EmS Code	: F-A, S-B
14.5 Environmental hazards	
Marine pollutant	: no

ADR

14.1 UN number	: UN 2735
14.2 UN proper shipping name	: AMINES, LIQUID, CORROSIVE, N.O.S. (2-propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine)
14.3 Transport hazard class(es)	: 8
14.4 Packing group	: II
Labels	: 8
14.5 Environmental hazards	
Environmentally hazardous	: no

RID

14.1 UN number	: UN 2735
----------------	-----------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

14.2 UN proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(2-propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Labels : 8

14.5 Environmental hazards

Environmentally hazardous : no

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - List of substances subject to authorisation - Future sunset date : Not applicable

Water contaminating class (Germany) : WGK 1 slightly water endangering

TA Luft List (Germany) :

- Total dust: Not applicable
- Inorganic substances in powdered form: Not applicable
- Inorganic substances in vapour or gaseous form: Not applicable
- Organic Substances: Not applicable
- Carcinogenic substances: portionClass 2: < 0,01 %
- Mutagenic: Not applicable
- Toxic to reproduction: Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	28.03.2018	400001013069	06.03.2017
			Date of first issue: 06.03.2017

AICS	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOIC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Further information

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HUNTSMAN

Enriching lives through innovation

JEFFLINK® 136

Version	Revision Date:	SDS Number:	Date of last issue: 06.03.2017
1.1	28.03.2018	400001013069	Date of first issue: 06.03.2017

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.