



SECTION 1: IDENTIFICATION

Product Identifier

Product Name DELTA®-ADHESIVE

Intended Use of the Product

Liquid substrate adhesive for self-adhesive membranes

Name, Address, and Telephone of the Responsible Party

Dörken Systems Inc.

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

OSHA Regulatory Status This article This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 2

Reproductive toxicity - Category 2

Specific target organ toxicity (single exposure) – Category 3

Specific target organ toxicity (repeated exposure) – Category 2

Flammable liquids - Category 2

Label Elements







Hazard Statements

Cause skin irritation

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Highly flammable liquid and vapor

<u>Appearance</u>: Viscous <u>Physical State</u>: liquid <u>Odor</u>: Strong Solvent

<u>Precautionary Statements - Prevention</u>

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools



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Take precautionary measures against static discharge

Keep cool

<u>Precautionary Statements - Response</u>

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing If eye irritation persists: Get medical advice/attention

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

In case of fire: Use CO2, dry chemical, or foam for extinction

<u>Precautionary Statements - Response</u>

Store locked up

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

Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not Applicable

Mintura

Unknown acute toxicity (GHS-US)

17.10458% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>iviixture</u>		
Name	Product Identifier	% (w/w)
Hexane*	(CAS No) 110-54-3	30.00 - 60.00
Aceton*	(CAS No) 67-64-1	10-30
Synthetic Polymer Blend*	Proprietary	1-5
Polymer Blend*	Proprietary	1-5
Solvent naphtha, petroleum, medium aliphatic*	(CAS No) 64742-88-7	1-5
Mineral Oil*	(CAS No) 8012-95-1	1-5
Bentonite*	(CAS No) 1302-78-9	1-5

The exact percentage (concentration) of composition has been withheld as a trade secret.

Product containing mineral oil with less than 3% DMXO extract as measured by IP 346

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General: In case of accident or un-wellness, seek medical advice immediately (show directions for use or safety

data sheet if possible). If symptoms persist, call a physician.

Eye Contact: Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove

any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact: Wash immediately with soap and plenty of water while removing all contaminated clothes and shoes. If

symptoms persist, call a physician. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a

physician.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Rinse mouth. Never give anything by mouth to an unconscious person.

Self-protection: Use personal protective equipment as required.



Most Important Symptoms and Effects Both Acute and Delayed

May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation. Drowsiness. Dizziness.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Keep victim warm and quiet. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

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

chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable: Do not use a solid water stream as it may scatter and spread fire.

Special Hazards Arising From the Substance or Mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Explosion data

Reactivity: Hazardous reactions will not occur under normal conditions.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Use personal protective

equipment as required. Remove wall sources of ignition. Ensure adequate ventilation,

especially in confined areas.

Environmental Precautions: Collect spillage. Dispose of contents/container to an approved waste disposal plant. Prevent

entry into waterways, sewers, basements or confined areas.

Methods and Materials for Containment and Cleaning Up

For Containment: A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand

or other non-cobustible material and trasfer to containers.

Methods for Cleaning Up: Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later

disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Advice of Safe Handling: Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame

and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local

exhaust ventilation. Use personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray.

Storage Conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights,

electric motors and static electricity).

Incompatible materials: Strong acids. Strong oxidizing agents. Strong bases.





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexane (CAS No) 110-54-3	TWA: 500 ppm	TWA: 500 ppm	IDLH: 1100 ppm
		TWA: 1800 mg/m ³	TWA: 50 ppm
			TWA: 180 mg/m ³
Acetone (CAS No) 67-64-1	STEL: 500 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
	TWA: 250 ppm	TWA: 2400 mg/m ³	TWA: 250 ppm
			TWA: 590 mg/m ³
Solvent naphtha, petroleum, medium	-	TWA: 500 ppm	-
aliphatic		TWA: 2900 mg/m ³	
(CAS No) 64742-88-7			
Mineral oil (CAS No) 8012-95-1	TWA: 5 mg/m³ inhalable	TWA: 5 mg/m ³	IDLH: 2500 mg/m ³
	fraction excluding metal		TWA: 5 mg/m ³
	working fluids, highly & severely refined		STEL: 10 mg/m ³
Bentonite (CAS No) 1302-78-9	TWA: 5 mg/m³ respirable fraction	-	-

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the

immediate vicinity of any potential exposure. Ensure adequate ventilation, especially

in confined areas.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear

respiratory protection.









Other Information:

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clathing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : liquid

Appearance: Viscous blueOdor: Strong SolventOdor Threshold: Not availablepH: Not available

Evaporation Rate : >1

Melting Point: Not AvailableFreezing Point: Not available



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Boiling Point >56°C / 133°F **Flash Point** -23°C / -9°F **Auto-ignition Temperature** 233°C / 451°F **Decomposition Temperature** Not available Flammability (solid, gas) Not available

Lower Flammable Limit 1 **Upper Flammable Limit** 13

Vapor Pressure 31 kPa @25°C

Relative Vapor Density at 20°C 2.8 **Relative Density** 0.84

Specific Gravity / Density Not availabe **Specific Gravity** Not available Not available Solubility Not available Partition Coefficient: N-Octanol/Water Viscosity $>100 \text{ mm}^2/\text{s}$

Explosion Data - Sensitivity to Mechanical

Impact

Not expected to present an explosion hazard due to mechanical impact.

Explosion Data - Sensitivity to Static Discharge Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Not available **Reactivity:**

Chemical Stability: Stable under recommended handling and storage conditions. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal processing.

Conditions to Avoid: Direct sunlight, extremely high temperatures, and incompatible materials. Sparks,

heat, open flame and other sources of ignition.

Strong acids, strong bases, strong oxidizers. **Incompatible Materials:**

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gasses and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

<u>Information on Toxicological Effects - Product</u>

Skin Corrosion/Irritation: Irritating to skin Serious Eye Damage/Irritation: Irritating to eyes

Respiratory or Skin Sensitization: May cause drowsiness or dizziness Ingestion: Ingestion may cause adverse effects

Chemical Name	Oral LD50	Dermal LD50	Inhaltion LC50
Hexane (CAS No) 110-54-3	= 25 g/kg (Rat)	=5 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
Acetone (CAS No) 67-64-1	= 5800 mg/kg (Rat)	-	$= 50100 \text{ mg/m}^3 \text{ (Rat) 4 h}$
Solvent naphtha, petroleum medium	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	>5.28 mg/L
aliphatic (CAS No) 64742-88-7			(Rat) 4 h
Mineral oil (CAS No) 8012-95-1	> 24 g/kg (Rat)	-	= 2062 ppm (Rat) 4 h
Bentonite (CAS No) 1302-78-9	>5000 mg/kg (Rat)	-	-

<u>Information on toxicological effects</u>

Syptoms: May cause redness and tearing of the eyes. Vapors may cause drowsiness and

dizziness. Coughing and/ or wheezing. May cause skin irritaiton.

Delayed and immediate affects as well as chronic effects from short and long-term exposure



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Sensitization:Not availableGerm cell mutagenicity:Not available

Carcinogenigity: The classification as a carcinogen need not apply if it can be shown that the substance

contains less than 3% DMSO extract as measured by IP 346. This note applies only to cetarin complex oil derived substances. The table below indicates whether each

agence has listed any ingredents as carcinogen.

Chamical Name	ACGIH	IARC	NTP	OSHA
Polymer Bland	ı	Group 3	-	=
Mineral oil (CAS No) 8012-95-1	A2	Group 1	-	X
		Group 3		

ACGIH – American Conference of Governmental Industiral Hygienists

A2 – Suspected Human Carcinogen

IARC – International Agency for Research on Cancer

Group 1 – Carcinogenic to Humans

OSHA – Occupational Safty and Health Administraion

X - Present

Reproductive toxisicty: Contains a known or suspected reproductive toxin.

STOT – single exposure: Target organs. Respiratory ststem. Cntral nervouse system.

STOT – repeated exposrure: Causes damage to organs through prolonged or repeated exposure.

Chroinic toxicity: Avoid repeated exposure.

Target Organ Effects:Central nervouse system, eyes, peripheral nervouse System, respiratory system, skin. **Neruoligical effects:**Intentional misuse by deliberately concentrating and inhaling contents may be

harmful or fatal.

Aspiration hazard: Not available

Numerical measures of toxicity - Product Information

ATEmix (oral) – 13.438.00 mg/kg ATEmix (dermal) – 4.994.00 mg/kg

ATEmix (inhaltion-dust/mist) – 376.70 mg/l ATEmix (inhaltion-vapor) – 84.964.00 mg/l

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasing effects. 17.10819% of the mixture consist of

components of unknown to the aquatic environment.

Persistance and degradability: Not available

Bioaccumulation:

Chemical Name	Partition coefficient	
Acetone 64-64-1	-0.24	

Other Adverse Effects: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: This material, as supplied, is a hazardous waste according to federal regualtio (40 CFR

261)

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Do not reuse container.

Ecology - Waste Materials: Avoid release to the environment.

US EPA Waste Number: D001





This product contains one or more substances that are listed with the state of California as hazardous waste.

Chemical Name	Partition coefficient	
Haxane (CAS No) 110-54-3	Toxic/Ignitable	
Acetone (CAS No) 67-64-1	lgnitable	

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT:



Class: 3
UN Number: 1133
Packaging group: II
Hazard label: 3

Description of goods: Adhesive

Emergency Response Guide Number 128

In Accordance with IMDG:



Class: 3
UN Number: 1133
Label: 3
Packaging group: ||

EMS Number: F-E,S-D

Marine pollutant: This product contains a chamical which is listed as a marine

pollutant.

Desctipiton of goods: Adhesive

In Accordance with IATA:



Class: 3
UN Number: 1133
Label: 3
Packaging group: ||

Desctipiton of goods: Adhesive

Special Provisions: A3

In Accordance with TDG:



Class: 3
UN Number: 1133
Label: 3
Packaging group: ||

Desctipiton of goods: Adhesive

SECTION 15: REGULATORY INFORMATION

International Inventories
TSCA – Complies
DSL/NDSL – Complies

EINECS/ELINCS – Complies





IECSC – Complies

KECL – Complies

PICCS - Complies

AICS – Complies

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

Chemical Name	SARA 313 – Threshold Values %	
Haxane (CAS No) 110-54-3	1.0	

SARA 311/312 Hazard Categories

Acute Health Hazard – YES Chronic Health Hazard – YES Fire Hazard – YES Sudden Release of pressure hazard – NO Reactive Hazard – NO

CWA (Clean Water Act)

This product does not contain any substances which are regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains on or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substance RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hexane (CAS No) 110-54-3	5000 lb	-	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
Acetone (CAS No) 67-64-1	1000 lb	-	RQ 1000 lb final RQ
			RQ 454 kg final RQ

US State Regulations

California Proposition 65 – This product contains the following Proposition 65 chemical.

Chemical Name	California Proposition 65
Quartz (CAS No) 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hexane (CAS No) 110-54-3	X	X	X
Acetone (CAS No) 67-64-1	X	X	X
Solvent naphtha, petroleum medium aliphatic (CAS No) 64742-88-7	Х	-	-
Mineral oil (CAS No) 8012-95-1	X	X	X
Benzene, 1,2,4-trimethyl (CAS No) 95-63-6	Х	X	X
Quartz (CAS No) 14808-60-7	X	X	X



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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

NFPA: Health hazard 2 Flammability 3 Instability 0 Phisical and Chemical Propeties –

HMIS: Health hazard 2* Flammability 3 Instability 0 Personal protection X

*Chronic Health Hazard

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