

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

<b>Product name</b>	AK350A Fade Out Thinner Aerosol
<b>Product code</b>	AK350A
<b>Intended use of the substance/preparation</b>	Thinner for professional use
<b>Supplier</b>	Du Pont (New Zealand) Limited
<b>Street address</b>	Central Park Corporate Centre Level 2, Building 5 666 Great South Road Greenlane, Auckland 1051
<b>Telephone</b>	(64)-9526 2501
<b>Telefax</b>	(64)-9526 2505
<b>Emergency telephone number</b>	NZ Poisons Information Centre Ph: 0800 764 766 24-hour Emergency Number: (64)-9526 2501
<b>Date of preparation</b>	2011-06-01

## 2. Hazards identification

Classified as a Dangerous Good according to NZS 5433


Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

### HSNO Classification

Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1D
Acute inhalation toxicity	Category 6.1E
Serious eye damage/eye irritation	Category 8.3A
Germ cell mutagenicity	Category 6.6B
Carcinogenicity	Category 6.7B
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Acute aquatic toxicity	Category 9.1C

Endpoints which are "not classified", "cannot classified" and "not applicable" are not shown

### GHS-Labeling

<b>Hazard symbols</b>	
<b>Signal word</b>	Danger
<b>Hazard statements</b>	Harmful in contact with skin. Harmful if swallowed. May be harmful if inhaled. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes damage to organs. Suspected of causing genetic defects. Suspected of causing cancer. Harmful to aquatic life.
<b>Precautionary statements</b>	Wear eye/face protection. Avoid release to the environment. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not eat, drink or smoke when using this product. Obtain special instructions before use.



Wash hands after handling.  
Wear protective gloves/ protective clothing.  
IF exposed: Call a POISON CENTER or doctor/ physician.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
Specific treatment (see supplemental first aid instructions on this label).  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

**Other hazards which do not result in classification**

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**3. Composition/information on ingredients****Pure substance/mixture**

Mixture

CAS-No.	Chemical Name	Concentration	GHS ardous	Haz-
115-10-6	dimethyl ether	50 - 60%	✓	
123-86-4	n-butyl acetate	5 - 10%	✓	
108-94-1	cyclohexanone	5 - 10%	✓	
141-78-6	ethyl acetate	5 - 10%	✓	
108-65-6	2-methoxy-1-methylethyl acetate	5 - 10%	✓	
1330-20-7	xylene	3 - 5%	✓	
100-41-4	ethylbenzene	1 - 3%	✓	
628-63-7	pentyl acetate	1 - 3%	✓	
95-63-6	1,2,4-trimethylbenzene	0.1 - 0.3%	✓	
64742-95-6	solvent naphtha (petroleum), light arom. (<0,1% benzene)	0.1 - 0.3%	✓	
108-67-8	mesitylene	0.0 - 0.1%	✓	
70657-70-4	2-methoxypropyl-1-acetate	0.0 - 0.1%	✓	
98-29-3	4-tert-Butylpyrocatechol	0.0 - 0.1%	✓	
64-19-7	acetic acid	0.0 - 0.1%	✓	
71-43-2	benzene	0.0 - 0.1%	✓	
103-65-1	n-propylbenzene	0.0 - 0.1%	✓	
68855-54-9	silicic acid / silicium dioxide cryst.	0.0 - 0.1%	✓	
14464-46-1	Talc (Mg3H2(SiO3)4)	0.0 - 0.1%	✓	
98-82-8	cumene	0.0 - 0.1%	✓	
2238-07-5	Diglycidyl ether	0.0 - 0.1%	✓	
64-17-5	ethanol	0.0 - 0.1%	✓	
110-19-0	isobutyl acetate	0.0 - 0.1%	✓	



CAS-No.	Chemical Name	Concentration	GHS ardous	Haz-
70131-67-8	Siloxanes and Silicones, di-Me, hydroxy-terminated	0.0 - 0.1%	✓	
71-36-3	n-butanol	0.0 - 0.1%	✓	
97-88-1	n-butyl methacrylate	0.0 - 0.1%	✓	
26761-45-5	2,3-epoxypropyl neodecanoate	0.0 - 0.1%	✓	
556-67-2	octamethylcyclotetrasiloxane	0.0 - 0.1%	✓	
100-42-5	styrene	0.0 - 0.1%	✓	
108-88-3	toluene	0.0 - 0.1%	✓	

Non-regulated ingredients 5 - 10%

## 4. First aid measures

### Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

### Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.

### Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

### Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Keep at rest.

### Most Important Symptoms/effects, acute and delayed

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### Ingestion

May result in gastrointestinal distress.

#### Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

#### Notes to physician

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

## 5. Fire-fighting measures

### Suitable extinguishing media

Universal aqueous film-forming foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Water spray.

### Extinguishing media which shall not be used for safety reasons

High volume water jet

### Specific hazards

Flammable liquid. Vapours may form explosive mixtures with air. Remove all sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

**Special Protective Equipment and Fire Fighting Procedures**

Wear as appropriate: Full protective flameproof clothing. Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**6. Accidental release measures****Personal precautions**

Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see chapters 7 and 8). Do not inhale vapours.

**Environmental precautions**

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

**Methods for cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations. Clean preferably with a detergent; avoid use of solvents.

**7. Handling and storage****Safe handling advice**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

**Storage****Suitable storage conditions**

Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Suitable container and packaging materials for safe storage**

Always keep in containers made of the same material as the supply container.

**8. Exposure controls/personal protection****National occupational exposure limits****Workplace Exposure Standards (WESs) 2002**

Chemical Name		
dimethyl ether	TWA	400 ppm
	TWA	766 mg/m <sup>3</sup>
	STEL	500 ppm
	STEL	958 mg/m <sup>3</sup>
n-butyl acetate	TWA	150 ppm
	TWA	713 mg/m <sup>3</sup>
	STEL	200 ppm
	STEL	950 mg/m <sup>3</sup>
cyclohexanone	TWA	25 ppm
	TWA	100 mg/m <sup>3</sup>
ethyl acetate	TWA	200 ppm
	TWA	720 mg/m <sup>3</sup>



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Chemical Name		
xylene	TWA	50 ppm
	TWA	217 mg/m3
ethylbenzene	TWA	100 ppm
	TWA	434 mg/m3
	STEL	125 ppm
	STEL	543 mg/m3
pentyl acetate	TWA	100 ppm
	TWA	532 mg/m3
1,2,4-trimethylbenzene	TWA	25 ppm
	TWA	123 mg/m3
mesitylene	TWA	25 ppm
	TWA	25 ppm
	TWA	123 mg/m3
	TWA	123 mg/m3
acetic acid	TWA	10 ppm
	TWA	25 mg/m3
	STEL	15 ppm
	STEL	37 mg/m3
benzene	TWA	5 ppm
	TWA	16 mg/m3
silicic acid / silicium dioxide cryst.	TWA	10 mg/m3
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	TWA	0.1 mg/m3
cumene	TWA	25 ppm
	TWA	125 mg/m3
	STEL	75 ppm
	STEL	375 mg/m3
Diglycidyl ether	TWA	0.1 ppm
	TWA	0.53 mg/m3
ethanol	TWA	1,000 ppm
	TWA	1,880 mg/m3
isobutyl acetate	TWA	150 ppm
	TWA	713 mg/m3
n-butanol	CEIL	50 ppm
	CEIL	150 mg/m3
styrene	TWA	50 ppm
	TWA	213 mg/m3



Chemical Name		
	STEL	100 ppm
	STEL	426 mg/m3
toluene	TWA	50 ppm
	TWA	188 mg/m3

**Engineering measures**

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Protective equipment**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye protection**

Wear protective eyewear for protection against solvent spatter.

**Hand protection**

The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name	Glove material	Glove thickness	Break through time
n-butyl acetate	Viton (R) ®	0.7 mm	10 min
	Nitrile rubber	0.33 mm	30 min
ethyl acetate	Nitrile rubber	0.33 mm	10 min
	Viton (R) ®	0.7 mm	480 min
xylene	Nitrile rubber	0.33 mm	30 min
	Viton (R) ®	0.7 mm	480 min
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Viton (R) ®	0.7 mm	30 min
n-butanol	Viton (R) ®	0.7 mm	480 min
	Nitrile rubber	0.33 mm	480 min

The protective glove should be checked in each case for their work specific suitability (e.g. mechanical stability, product compatibility, and anti-static properties). When the intended use is for spray application a nitrile glove of the chemical resistance group 3 (e.g. Dermatril® glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

**Skin and body protection**

Wear suitable protective clothing. Personnel should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber.

**Hygiene measures**

Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents!



## 9. Physical and chemical properties

### Appearance

Form : aerosol    Colour: clear    Odor Threshold : no data available

pH	No data available.	
Freezing point	Not applicable.	
Boiling point	Not applicable.	
Flash point	-1 °C	
Evaporation rate	Slower than Ether	
Flammability		
Upper explosion limit	18.6 %	
Lower explosion limit	3 %	
Vapour pressure	3,400.0 hPa	
Solubility(ies)	appreciable	
Vapour density	no data available	
Density	0.77 g/cm <sup>3</sup>	DIN 53217/ISO 2811
Partition coefficient: n-octanol/water	no data available	
Ignition temperature	235 °C	DIN 51794
Decomposition temperature		
Viscosity (23 °C)	Not applicable.	ISO 2431-1993

## 10. Stability and reactivity

### Stability

Stable

### Hazardous polymerisation

Will not occur.

### Conditions to avoid

Stable under recommended storage and handling conditions (see section 7).

### Materials to avoid

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. Toxicological information

### Information on likely routes of exposure

#### Inhalation

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### Ingestion

May result in gastrointestinal distress.

#### Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

### Delayed and immediate effects and also chronic effects from short and long term exposure:

**Acute oral toxicity**

cyclohexanone	Category 4
ethyl acetate	Category 5
xylene	Category 5
ethylbenzene	Category 5
1,2,4-trimethylbenzene	Category 4
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 5
4-tert-Butylpyrocatechol	Category 4
acetic acid	Category 5
n-propylbenzene	Category 5
cumene	Category 5
Diglycidyl ether	Category 4
isobutyl acetate	Category 5
n-butanol	Category 4
2,3-epoxypropyl neodecanoate	Category 2
octamethylcyclotetrasiloxane	Category 4
styrene	Category 5
toluene	Category 4

**Acute dermal toxicity**

cyclohexanone	Category 3
ethyl acetate	Category 5
2-methoxy-1-methylethyl acetate	Category 5
ethylbenzene	Category 4
1,2,4-trimethylbenzene	Category 4
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 5
4-tert-Butylpyrocatechol	Category 4
acetic acid	Category 4
n-propylbenzene	Category 5
cumene	Category 4
Diglycidyl ether	Category 3
isobutyl acetate	Category 5
n-butanol	Category 5
2,3-epoxypropyl neodecanoate	Category 1
octamethylcyclotetrasiloxane	Category 4
styrene	Category 3
toluene	Category 4

**Acute inhalation toxicity**

cyclohexanone	Category 4
ethyl acetate	Category 5
ethylbenzene	Category 4
1,2,4-trimethylbenzene	Category 4
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 5
acetic acid	Category 4
cumene	Category 4
Diglycidyl ether	Category 1
isobutyl acetate	Category 5
n-butanol	Category 5
octamethylcyclotetrasiloxane	Category 5
styrene	Category 4
toluene	Category 4

% of unknown composition 58.3 %

**Serious eye damage/eye irritation**

dimethyl ether	Category 2A
cyclohexanone	Category 2A
ethyl acetate	Category 2B
2-methoxy-1-methylethyl acetate	Category 2A
xylene	Category 2B
ethylbenzene	Category 2B
pentyl acetate	Category 2B



1,2,4-trimethylbenzene	Category 2A
mesitylene	Category 2B
4-tert-Butylpyrocatechol	Category 1
acetic acid	Category 1
benzene	Category 2A
cumene	Category 2B
Diglycidyl ether	Category 2A
ethanol	Category 2A
isobutyl acetate	Category 2B
Siloxanes and Silicones, di-Me, hydroxy-terminated	Category 2A
n-butanol	Category 2A
n-butyl methacrylate	Category 2A
styrene	Category 2A
toluene	Category 2A

**Germ cell mutagenicity**

cyclohexanone	Category 2
benzene	Category 1B
styrene	Category 2

**Carcinogenicity**

ethylbenzene	Category 2
benzene	Category 1A
styrene	Category 2

**Toxicity for reproduction**

ethylbenzene	Category 2
2-methoxypropyl-1-acetate	Category 1B
benzene	Category 2
octamethylcyclotetrasiloxane	Category 2
styrene	Category 2

**Target Organ Systemic Toxicant - Single exposure****• Skin Absorption**

**Narcotic effects** toluene

**• Inhalation**

**Respiratory system** benzene

**Target Organ Systemic Toxicant - Repeated exposure****• Skin Absorption**

**Spleen** n-butyl methacrylate

**Numerical measures of toxicity (acute toxicity estimation (ATE),etc. )**

No information available.

**Symptoms related to the physical, chemical and toxicological characteristics**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Through skin resorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

**12. Ecological information**

Product contains environmentally hazardous substances and product is classified per GHS.

**Ecotoxicity effects**

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

**Acute aquatic toxicity**

n-butyl acetate	Category 3
xylene	Category 2
ethylbenzene	Category 1
pentyl acetate	Category 3
1,2,4-trimethylbenzene	Category 2
solvent naphtha (petroleum), light arom. (<0,1% benzene)	Category 2
mesitylene	Category 2
acetic acid	Category 3
benzene	Category 2
cumene	Category 2
isobutyl acetate	Category 3
n-butyl methacrylate	Category 3
2,3-epoxypropyl neodecanoate	Category 2
styrene	Category 1
toluene	Category 3

% of unknown composition 82.6%

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods**

Dispose of in accordance with local regulations.

**Disposal considerations**

## 14. Transport information

**NZS5433**

Proper shipping name: AEROSOLS  
UN number: 1950  
Hazard Class: 2.1  
Packing group:  
Hazchem Code:

**IMDG (Sea transport)**

Proper shipping name: AEROSOLS  
UN number: 1950  
Hazard Class: 2.1  
Subsidiary Hazard Class: Not applicable.  
Packing group:  
Marine Pollutant: no  
EmS: F-D,S-U

**ICAO/IATA (Air transport)**

Proper shipping name: AEROSOLS, FLAMMABLE  
UN number: 1950



Hazard Class: 2.1  
Subsidiary Hazard Class: Not applicable.  
Packing group:

**Matters needing attention for transportation**

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

**15. Regulatory information****National regulatory information**

HSNO Approval Code	HSR002520
HSNO Classification	
Acute oral toxicity	Category 6.1D
Acute dermal toxicity	Category 6.1D
Acute inhalation toxicity	Category 6.1E
Serious eye damage/eye irritation	Category 8.3A
Germ cell mutagenicity	Category 6.6B
Carcinogenicity	Category 6.7B
Toxicity for reproduction	Category 6.8B
Target Organ Systemic Toxicant - Single exposure	Category 6.9B
Target Organ Systemic Toxicant - Repeated exposure	Category 6.9B
Acute aquatic toxicity	Category 9.1C

**16. Other information**

Sources of key data used to compile the Safety Data Sheet  
Department

Du Pont (New Zealand) Limited  
Central Park Corporate Centre  
Level 2, Building 5  
666 Great South Road  
Greenlane, Auckland 1051

Data Review Department  
Issuing date

Regulatory Affairs  
2011-06-01

## Revision Note

Version	Changes
1.0	

Revision Date: 2011-06-01

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.