

# Material Safety Data Sheet



## Hazardous Substance, Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

#### Product name: 140-93141 Levene Thinner 110

**Synonyms:**  
Levene Thinner 110

**Product Code**  
14093141

**Bar Code**  
-

**Recommended use:** Paint thinner.

**Supplier:** Dulux New Zealand, a division of DuluxGroup (New Zealand) Pty Ltd  
**ABN:** 55 133 404 118 / Co. 2355191  
**Street Address:** 150 Hutt Park Road  
Lower Hutt  
New Zealand  
**Telephone:** 0800 800 424

**Emergency telephone number:** Australia – 1800 033 111      New Zealand – 0800 734 607

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of EPA New Zealand.

**ERMA Group Standard:** Surface Coatings and Colourants (Flammable) Group Standard 2006;  
HSR002662

**Signal Word**  
Danger

#### HSNO Hazard Classification

3.1B Flammable liquid  
6.1D Substances that are acutely toxic.  
6.3A Substances that are irritating to the skin  
6.4A Substances that are irritating to the eye  
6.8B Substances that are suspected human reproductive or developmental toxicants  
6.9B Substances that are harmful to human target organs or systems (repeated exposure)  
9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action  
9.3C Substances that are harmful to terrestrial vertebrates

#### Hazard Statement(s)

H225 Highly flammable liquid and vapour  
H332 Harmful if inhaled  
H302 Harmful if swallowed  
H336 May cause drowsiness or dizziness  
H315 Causes skin irritation  
H320 Causes eye irritation  
H361 Suspected of damaging fertility or the unborn child  
H373 May cause damage to organs through prolonged or repeated exposure  
H413 May cause long lasting harmful effects to aquatic life  
H433 Harmful to terrestrial vertebrates

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## Prevention Precautionary Statement(s)

P102 Keep out of reach of children  
P103 Read label before use  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P210 Keep away from all sources of ignition - No smoking  
P233 Keep container tightly closed  
P240 Ground/bond container and receiving equipment  
P241 Use explosion-proof electrical, ventilating, lighting and all other equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P260 Do not breathe mist, vapours or spray  
P264 Wash hands, face and all exposed skin thoroughly after handling  
P273 Avoid release to the environment  
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

## Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand  
P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P331 Do NOT induce vomiting  
P302+352 IF ON SKIN: Wash with soap and water  
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P332+313 If skin irritation occurs: Get medical advice/attention  
P363 Wash contaminated clothing before reuse  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P337+313 If eye irritation persists get medical advice/attention  
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P370+378 In case of fire: Use foam for extinction

## Storage Precautionary Statement(s)

P405 Store locked up  
P403+235 Store in a well ventilated place. Keep cool.

## Disposal Precautionary Statement(s)

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

## DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 3 Flammable Liquid

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Toluene	108-88-3	100%

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## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin contact:** For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance. This material can be absorbed through the skin with resultant toxic effects. Seek medical advice.

**Eye contact:** If in eyes wash out immediately with water. Seek medical attention.

**Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

**Fire fighting further advice:** If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

**Hazchem Code:** 3YE

**Suitable extinguishing media:** If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

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## LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel. If contamination of sewers or waterways has occurred advise local emergency services.

## Dangerous Goods – Initial Emergency Response Guide No: 16

### 7. HANDLING AND STORAGE

**Handling:** Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia or Department of Labour New Zealand.

However for:

	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	CARCINOGEN CATEGORY	NOTICES
Toluene	50	188	-	-	-	Sk

As published by the Safe Work Australia or Department of Labour New Zealand.

WES-TWA (Workplace Exposure Standard – Time-weighted Average). The time-weighted average exposure standard designed to protect the worker for the effects of long-term exposure.

WES-STEL (Workplace Exposure Standard - Short-Term Exposure Limit). The 15-minute average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue changes, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

‘Sk’ Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

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If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering measures:** Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

**Personal protection equipment:** G: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber may be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear, colourless liquid with a solvent odour.

<b>Solubility:</b>	Insoluble in water. Soluble in organic solvents.
<b>Specific Gravity (20 °C):</b>	0.862
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	7 kPa
<b>Flash Point (°C):</b>	4
<b>Flammability Limits (%):</b>	LEL – 1.3; UEL – 6.3
<b>Autoignition Temperature (°C):</b>	>530
<b>% Volatile by Volume:</b>	100
<b>Melting Point/Range (°C):</b>	N Av
<b>Boiling Point/Range (°C):</b>	110 - 111
<b>Decomposition Point (°C):</b>	N Av
<b>pH:</b>	N Av
<b>Viscosity:</b>	N Av
<b>Evaporation Rate (n-Butyl acetate=1):</b>	2.4
<b>Total VOC (g/Litre):</b>	N Av

(Typical values only - consult specification sheet)

N Av = Not available      N App = Not applicable

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## 10. STABILITY AND REACTIVITY

**Reactivity:** No reactivity hazards are known for the material.

**Chemical stability:** This material is thermally stable when stored and used as directed.

**Hazardous reactions:** No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** Oxides of carbon and nitrogen, smoke and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Skin contact:** Contact with skin will result in irritation. This material can be absorbed through the skin. Effects can include those described for 'INGESTION'.

**Ingestion:** Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications. Aspiration pneumonia (inflammation of the lung) may result.

**Eye contact:** May be an eye irritant.

**Long Term Effects:** No information available for product.

### Acute toxicity / Chronic toxicity:

TOLUENE:

Oral LD50 (rat):	636 mg/kg
Dermal LD50 (rabbit):	14,100 µL/kg
Inhalation LC50 (rat):	49 gm/m <sup>3</sup> /4hr

SKIN (rabbit): Moderate irritant.

The major effects in humans following acute exposure to high concentrations (such as in deliberate sniffing or industrial accidents) are central nervous system dysfunction and narcosis.

Under controlled conditions, inhalation of 50 ppm of toluene for 4 hours was associated with headache and irritation. There are also reports of altered central nervous system performance among humans inhaling 40 ppm.

Available data in human studies indicate that toluene is not carcinogenic.

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## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

<b>UN No:</b>	1294
<b>Dangerous Goods Class:</b>	3 Flammable Liquid
<b>Packing Group:</b>	II
<b>Hazchem Code:</b>	3YE
<b>Emergency Response Guide No:</b>	16

**Proper Shipping Name:** TOLUENE

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

<b>UN No:</b>	1294
<b>Dangerous Goods Class:</b>	3 Flammable Liquid
<b>Packing Group:</b>	II
<b>Hazchem Code:</b>	3YE

**Proper Shipping Name:** TOLUENE

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## AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No:** 1294  
**Dangerous Goods Class:** 3 Flammable Liquid  
**Packing Group:** II  
**Hazchem Code:** 3YE

**Proper Shipping Name:** TOLUENE

## 15. REGULATORY INFORMATION

**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)

**This material is subject to the following international agreements:**

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

**This material/constituent(s) is covered by the following requirements:**

- All the constituents of this material are listed on the *Australian Inventory of Chemical Substances (AICS)*.

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## 16. OTHER INFORMATION

### Literary reference

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Reason(s) For Issue: Revised

Format change

Minor Text Changes

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DuluxGroup (Australia) Pty Ltd and DuluxGroup (New Zealand) Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.