

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 1 of 15

### 1. Product and company identification

#### Product identifier

Trade name: 634A31 - Thinner for Special Lacquer 635L2

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

General use: Solvent for orthopedic procedures.  
Reserved for industrial and professional use.

#### Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
Postal Code, city: Salt Lake City, UT 84120  
USA  
WWW: www.ottobockus.com  
Telephone: +1 (801) 956-2400  
Telefax: +1 (801) 956-2401  
Department responsible for information: Quality Department,  
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),  
Email: USRegulatory@ottobock.com  
Additional information: Corporate headquarters:  
Ottobock SE & Co. KGaA  
Max-Näder-Straße 15  
Duderstadt  
Germany

#### Emergency phone number

**CHEMTREC, Telephone: +1 (800) 424-9300**  
**Transport:**  
**CONSULTANK Lutz Harder GmbH (Contract QUALI003)**  
**Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)**

### 2. Hazards identification

#### Emergency overview

Appearance: Form: liquid  
Color: colorless  
Odor: characteristic  
Classification: Flammable Liquid - Category 2. Skin Irritation - Category 2. Eye Irritation - Category 2A. Reproductive toxicant - Category 2.  
Specific Target Organ Toxicity (Single Exposure) - Category 3.  
Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 2 of 15

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Highly flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life with long lasting effects.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe vapors.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Call a POISON CENTER/doctor/.../if you feel unwell.  
Do NOT induce vomiting.  
Collect spillage.  
Store in a well-ventilated place. Keep container tightly closed.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Mixture of the substances listed below with non-hazardous additions

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 3 of 15

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 67-64-1	Acetone	25 - 50 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 142-82-5	n-Heptane	10 - 25 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - acute - Category 1. Aquatic toxicity - chronic - Category 1.
CAS 123-86-4	n-Butyl acetate	10 - 25 %	Flammable Liquid - Category 3. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 108-88-3	Toluene	10 - 25 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Reproductive toxicant - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1.
CAS 67-63-0	Isopropyl alcohol	2.5 - 10 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.

### 4. First aid measures

In case of inhalation:	Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side. Seek medical treatment in case of troubles.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Seek medical treatment in case of troubles.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After swallowing:	Do not induce vomiting. Keep victim calm and seek medical attention immediately.

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 4 of 15

### Most important symptoms/effects, acute and delayed

In case of inhalation:

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Inhalation of vapors exceeding the allowable WEL/TLV-levels may pose a health hazard as well as lead to irritation of mucous membranes and respiratory system, cause kidney and liver damage as well as adversely affect the central nervous system.

symptoms:

Headache, dizziness, fatigue, muscle weakness, numbing effect and, in exceptional cases, unconsciousness.

In case of ingestion: Harmful: may cause lung damage if swallowed.

After contact with skin: irritant

Prolonged or repeated contact with the product affects the skin's natural oils and induces drying up.

The product can be absorbed through skin.

After eye contact: irritant

### Information to physician

Treat symptomatically.

## 5. Fire fighting measures

Flash point/flash point range:

-2.2 °F

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

In case of fire, use Carbon dioxide, sand or dry chemical powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

Exposure to fire produces thick, black smoke that is hazardous to health.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

## 6. Accidental release measures

Personal precautions: Wear appropriate protective equipment. Keep unprotected people away.

Do not breathe vapors.

Provide adequate ventilation.

Environmental precautions:

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits.

Methods for clean-up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Provide adequate ventilation.

Do not remove residual product with water and detergent.

**634A31 - Thinner for Special  
Lacquer 635L2**

Material number 634A31

Page: 5 of 15

**7. Handling and storage****Handling**

Advices on safe handling: Provide good ventilation and/or an exhaust system in the work area.  
Avoid the formation of aerosol.  
Avoid contact with the substance.  
Do not breathe vapors.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.

Specific use(s) Solvent

**Storage**

Requirements for storerooms and containers:

Store in well closed containers in a cool, dry, well-ventilated area.

Hints on joint storage: Keep away from strong acids and bases as well as oxidizing agents.

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 6 of 15

### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: IDLH: TWA	2,500 ppm
		USA: NIOSH: TWA	590 mg/m <sup>3</sup> ; 250 ppm
		USA: OSHA: TWA	2,400 mg/m <sup>3</sup> ; 1,000 ppm
142-82-5	n-Heptane	USA: ACGIH: STEL	400 ppm
		USA: ACGIH: TWA	200 ppm
		USA: IDLH: TWA	750 ppm
		USA: NIOSH: Ceiling	1,800 mg/m <sup>3</sup> ; 440 ppm
		USA: NIOSH: TWA	350 mg/m <sup>3</sup> ; 85 ppm
123-86-4	n-Butyl acetate	USA: OSHA: TWA	2,000 mg/m <sup>3</sup> ; 500 ppm
		USA: ACGIH: STEL	150 ppm
		USA: ACGIH: TWA	50 ppm
		USA: IDLH: TWA	1,700 ppm
		USA: NIOSH: STEL	950 mg/m <sup>3</sup> ; 200 ppm
108-88-3	Toluene	USA: NIOSH: TWA	710 mg/m <sup>3</sup> ; 150 ppm
		USA: OSHA: TWA	710 mg/m <sup>3</sup> ; 150 ppm
		USA: ACGIH: TWA	20 ppm
		USA: IDLH: TWA	500 ppm
		USA: NIOSH: STEL	560 mg/m <sup>3</sup> ; 150 ppm
67-63-0	Isopropyl alcohol	USA: NIOSH: TWA	375 mg/m <sup>3</sup> ; 100 ppm
		USA: OSHA: Ceiling	500 ppm
		USA: OSHA: STEL	300 ppm
		USA: OSHA: TWA	200 ppm
		USA: ACGIH: STEL	984 mg/m <sup>3</sup> ; 400 ppm
		USA: ACGIH: TWA	492 mg/m <sup>3</sup> ; 200 ppm
		USA: IDLH: TWA	2,000 ppm [10% LEL]
		USA: NIOSH: STEL	1,225 mg/m <sup>3</sup> ; 500 ppm
		USA: NIOSH: TWA	980 mg/m <sup>3</sup> ; 400 ppm
		USA: OSHA: TWA	980 mg/m <sup>3</sup> ; 400 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
108-88-3	Toluene	USA: ACGIH-BEI, blood	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
		USA: ACGIH-BEI, urine	0.03 mg/L	Toluene in urine	end of exposure or end of shift
		USA: ACGIH-BEI, urine	0.3 mg/g creatinine	o-Cresol in urine	end of exposure or end of shift
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of work week

### Engineering controls

Use only explosion-protected equipment/instruments.  
Provide good ventilation and/or an exhaust system in the work area.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010

Skin protection: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: Neoprene or nitrile rubber-breakthrough time: > 480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.  
Use filter type AX (= against vapors of low boiling organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:  
Keep away from food, drink and animal feedingstuffs.  
Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.  
Avoid contact with skin and eyes.  
Do not breathe vapors.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Form: liquid  
Color: colorless

Odor: characteristic

Odor threshold: No data available

pH: No data available

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 8 of 15

Melting point/freezing point:	No data available
Initial boiling point and boiling range:	131 °F
Flash point/flash point range:	-2.2 °F
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 1.10 Vol-% UEL (Upper Explosive Limit): 13.00 Vol-%
Vapor pressure:	at 68 °F: 233 hPa at 122 °F: (Acetone) 800 hPa
Vapor density:	No data available
Density:	at 68 °F: 0.797 g/mL
Water solubility:	at 68 °F: slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No data available
Viscosity, kinematic:	at 68 °F: kinematic 11 s (DIN 53211/4)
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	419 °F
Solvent content:	100 %

## 10. Stability and reactivity

Reactivity:	Highly flammable liquid and vapor.
Chemical stability:	Product is stable under normal storage conditions.
Possibility of hazardous reactions:	Vapors may form explosive mixtures with air.
Conditions to avoid:	Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
Incompatible materials:	Strong acid or bases as well as oxidizing agents.
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available



## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 9 of 15

## 11. Toxicological information

### Toxicological tests

<p>Toxicological effects:</p> <p>Acute toxicity (oral): Lack of data.</p> <p>Acute toxicity (dermal): Lack of data.</p> <p>Acute toxicity (inhalative): Lack of data.</p> <p>Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.</p> <p>Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Reproductive toxicant - Category 2 = Suspected of damaging the unborn child.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.</p> <p>Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) - Category 2 = May cause damage to organs through prolonged or repeated exposure.</p> <p>Aspiration hazard: Aspiration Toxicity - Category 1 = May be fatal if swallowed and enters airways.</p>	<p>Other information:</p> <p>Possible risk of harm to the unborn child.</p>
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### Symptoms

In case of inhalation:

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Inhalation of vapors exceeding the allowable WEL/TLV-levels may pose a health hazard as well as lead to irritation of mucous membranes and respiratory system, cause kidney and liver damage as well as adversely affect the central nervous system.

symptoms:

Headache, dizziness, fatigue, muscle weakness, numbing effect and, in exceptional cases, unconsciousness.

In case of ingestion: Harmful: may cause lung damage if swallowed.

After contact with skin: irritant

Prolonged or repeated contact with the product affects the skin's natural oils and induces drying up.

The product can be absorbed through skin.

After eye contact: irritant

## 12. Ecological information

### Ecotoxicity

<p>Aquatic toxicity:</p>	<p>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>Avoid spills and leaks. Very small amounts contaminates drinking water.</p>
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### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):

100 % by weight

General information: Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation: Incinerate according to applicable local, state and federal regulations.

### Package

Recommendation: Dispose of waste according to applicable legislation.

## 14. Transport information

### UN number

ADR/RID, IMDG, IATA-DGR:

UN 1993

### UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1993, FLAMMABLE LIQUID, N.O.S. (Acetone, Heptane, Toluene, Isopropyl alcohol)

### Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3

### Packing group

ADR/RID, IMDG, IATA-DGR:

II

### Environmental hazards

Marine pollutant: yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available



## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 11 of 15

### USA: Department of Transportation (DOT)

Identification number: UN1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUIDS, N.O.S.  
(Acetone, Heptane, Toluene, Isopropyl alcohol)  
Hazard class or Division: 3  
Packing Group: II  
Labels: 3  
Symbols: G  
Special Provisions: IB2, T7, TP1, TP8, TP28  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 202  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 5 L  
Quantity limitations – Cargo only: 60 L  
Vessel stowage – Location: B



### Sea transport (IMDG)

UN number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Acetone, Heptane, Toluene, Isopropyl alcohol)  
Class or division, Subsidiary risk: Class 3, Subrisk -  
Packing Group: II  
EmS: F-E, S-E  
Special Provisions: 274  
Limited quantities: 1 L  
Excepted quantities: E2  
Package - Instructions: P001  
Package - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T7  
Tank instructions - Provisions: TP1, TP8, TP28  
Stowage and handling: Category B.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

### Air transport (IATA)

UN/ID number: UN 1993  
Proper shipping name: UN 1993, FLAMMABLE LIQUID, N.O.S.  
(Acetone, Heptane, Toluene, Isopropyl alcohol)  
Class or division, Subsidiary risk: Class 3  
Packing Group: II  
Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special Provisions: A3  
Emergency Response Guide-Code (ERG): 3H

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 12 of 15

### 15. Regulatory information

#### National regulations - U.S. Federal Regulations

Acetone:	<p>TSCA Inventory: listed</p> <p>Clean Air Act:</p> <p>CAA SOCM Chemical: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>RCRA Hazardous Wastes: Code U002</p> <p>RCRA Groundwater Monitoring: Methods 8240 / PQL 100</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0004*</p>
n-Heptane:	<p>TSCA Inventory: listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0312</p>
n-Butyl acetate:	<p>TSCA Inventory: listed</p> <p>Clean Water Act:</p> <p>CWA Hazardous Substances: RQ 5000 lbs.</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 5000 lbs.</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0072</p>
Toluene:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status:</p> <p>IARC Rating: Group 3</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>Clean Air Act:</p> <p>CAA Hazardous Air Pollutants: yes</p> <p>CAA SOCM Chemical: yes</p> <p>Clean Water Act:</p> <p>CWA Hazardous Substances: RQ 1000 lbs.</p> <p>CWA Priority Pollutants: yes</p> <p>Other Environmental Laws:</p> <p>CERCLA: RQ 1000 lbs.</p> <p>RCRA Hazardous Wastes: Code U220</p> <p>RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 2, 5</p> <p>SARA Title III - Section 313, Toxic Release: Conc. 1.0% / Threshold Standard</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0619</p>
Isopropyl alcohol:	<p>TSCA Inventory: listed</p> <p>Carcinogen Status:</p> <p>IARC Rating: Group 3</p> <p>OSHA Carcinogen: not listed</p> <p>NTP Rating: not listed</p> <p>NIOSH Recommendations:</p> <p>Occupational Health Guideline: 0359</p>

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 13 of 15

### National regulations - U.S. State Regulations

Acetone:	<p>California Prop 65 List: None</p> <p>Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 89 - EL: 119 - OEL: 1780</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9</p> <p>Minnesota Haz. Substance: Codes: AON - Ratings: 7.16 - Status: Title III</p> <p>New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg</p>
n-Heptane:	<p>California Proposition 65 code: not listed</p> <p>Idaho Air Pollutant List: Title 585: AAC: 82 - EL: 109 - OEL: 1640 - Title 586: -</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6</p> <p>Minnesota Haz. Substance: Codes: ANO - Ratings: -</p> <p>Pennsylvania Haz. Substance code: -</p> <p>Washington Air Contaminant: TWA: 400 ppm - 1600 mg - STEL: 500 ppm - 2000 mg</p>
n-Butyl acetate:	<p>CAS# 123-86-4 can be found on the following state right to know lists: - California, Massachusetts, Minnesota, New Jersey, Pennsylvania.</p>
Toluene:	<p>California Proposition 65: developmental</p> <p>Delaware Air Quality Management List: DRQ: 1000 - RQ State: Federal Regulations Apply</p> <p>Idaho Air Pollutant List: Title 585: AAC: 18.75 - EL: 25 - OEL: 375 - Title 586: -</p> <p>Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000</p> <p>Massachusetts Haz. Substance codes: 2,4,5,6 F7 F8 F9</p> <p>Michigan Critical Material: Note: - - CMR: 32 - Parameter: 00108-88-3 - Annual Usage Parameter: 100</p> <p>Minnesota Haz. Substance: Codes: ANO - Ratings: 8.64 - Status: Air Pollutant Title III. TRI. Water Pollutant</p> <p>New Jersey RTK Hazardous Substance: DOT: 1294 - Sub No.: 1866 - TPQ: -</p> <p>New York List of Hazardous Substances: RQ-Air: 1000 - RQ-Land: 1 - Note: No Note Associated with this chemical.</p> <p>Pennsylvania Haz. Substance code: E</p> <p>Washington Air Contaminant: TWA: 100 ppm - 375 mg - STEL: 150 ppm - 560 mg</p>

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Page: 14 of 15

Isopropyl alcohol:

Idaho Air Pollutant List:

Title 585: AAC: 49 -- EL: 65.3 -- WEL: 980 -Title 586: -  
Massachusetts Haz. Substance codes: 2,4,5,6 F9  
Minnesota Haz. Substance:  
Codes: ANO -- Ratings: 7.84 -- Status: Title III. TRI.  
New Jersey RTK Hazardous Substance:  
DOT: 1219 - Sub No.: 1076 - TPQ: -  
Pennsylvania Haz. Substance code: E  
Washington Air Contaminant:  
TWA: 400 ppm - 980 mg -- STEL: 500 ppm - 1225 mg

### National regulations - Canada

Acetone: DSL: listed  
n-Heptane: DSL: listed  
n-Butyl acetate: DSL: listed  
Toluene: DSL: listed  
Isopropyl alcohol: DSL: listed

### National regulations - Great Britain

Hazchem-Code: •3YE

## 16. Other information

Text for labeling:

Contains 25 - 50 % Acetone, 10 - 25 % n-Heptane, 10 - 25 % n-Butyl acetate, 10 - 25 % Toluene, 2.5 - 10 % Isopropyl alcohol.

Hazard components for labelling: contains Acetone, Heptane, n-Butyl acetate, Toluene, Isopropyl alcohol,

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)  
Fire: 3 (Serious)  
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate)  
Flammability: 3 (Serious)  
Physical Hazard: 0 (Minimal)  
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
	X

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic toxicity - acute: Hazardous to the aquatic environment - acute  
Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Aspiration Toxicity: Aspiration toxicity  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Irritation: Eye irritation  
Flammable Liquid: Flammable liquid



# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

## 634A31 - Thinner for Special Lacquer 635L2

Material number 634A31

Revision date: 2/7/2025  
Version: 11.5  
Replaces version: 11.4  
Language: en-US  
Date of print: 9/2/2025

Page: 15 of 15

IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
Reproductive toxicant: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irritation: Skin irritation  
STOT RE: Specific target organ toxicity - repeated exposure  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

Literature: :

Reason of change: Changes in section 8: Occupational exposure limit values

Date of first version: 10/8/1994

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.