# **Safety Data Sheet**



Revision Number: 007.0 Issue date: 02/19/2025

# 1. IDENTIFICATION

Product name: LOCTITE EDAG 440 AS E&C known as IDH number: 1238804

ELECTRODAG 440 AS 5 KG

Product type/ EMC product

Recommended use:

Restriction of Use: None identified Region: United States

Company address:Contact information:Henkel CorporationTelephone: +1 (860) 571-5100

One Henkel Way

MEDICAL EMERGÉNCY Phone: Poison Control Center
Rocky Hill, Connecticut 06067

1-877-671-4608 (toll free) or 1-303-592-1711

1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

DANGER: H225 - HIGHLY FLAMMABLE LIQUID AND VAPOUR.

H315 - CAUSES SKIN IRRITATION.

H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.

H319 - CAUSES SERIOUS EYE IRRITATION.

H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

H351 - SUSPECTED OF CAUSING CANCER.

H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	2
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2





### **Precautionary Statements**

**Prevention:** P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.

IDH number: 1238804 Product name: LOCTITE EDAG 440 AS E&C known as ELECTRODAG 440 AS 5 KG Page 1 of 8 P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges. P260 - Do not breathe vapors, mist, or spray.

P264 - Wash affected area thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves, clothing, eye and face protection.

Response: P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing.

P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical attention. P333+P313 - If skin irritation or rash occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.

**Disposal:** P501 - Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Other hazards Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*	
Nickel	7440-02-0	30 - 60	
n-butyl acetate	123-86-4	10 - 30	
Propanol, 1(or 2)-ethoxy-	52125-53-8	5 - 10	
Toluene	108-88-3	5 - 10	
Ethanol	64-17-5	1 - 5	
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1 - 5	
Xylenes	1330-20-7	1 - 5	
Ethylbenzene	100-41-4	0.1 - 1	
Methyl methacrylate	80-62-6	0.1 - 1	

<sup>\*</sup> Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

DO NOT induce vomiting unless directed to do so by medical personnel. If Ingestion:

vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Never give anything by mouth to an unconscious person. Get medical

attention.

Most important symptoms and effects (acute

and delayed):

IDH number: 1238804

The most important known symptoms and effects, both acute and delayed, are

described in Section 11: Toxicological Information.

Indication of any immediate medical attention /

special treatment needed:

Not available.

### 5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, foam, powder

Improper extinguishing agents: Not available.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

Closed containers may rupture (due to build up of pressure) when exposed to Unusual fire or explosion hazards:

extreme heat. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point.

Hazardous combustion products: Oxides of carbon. Oxides of Metals in Section 3. Toxic and irritating vapors.

### **ACCIDENTAL RELEASE MEASURES**

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed

container for disposal.

# 7. HANDLING AND STORAGE

Use only with adequate ventilation. Prevent contact with eyes, skin and Handling:

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed.

For safe storage, store between 5 °C (41°F) and 30 °C (86°F) Storage:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Store away from heat, sparks, flames, or other

sources of ignition. Keep out of direct sunlight.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Nickel	1.5 mg/m3 TWA Inhalable fraction.	1 mg/m3 PEL (as Ni)	None	None
n-butyl acetate	50 ppm TWA 150 ppm STEL	150 ppm (710 mg/m3) PEL	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m3) PEL	None	None
Silane, dichlorodimethyl-, reaction products with silica	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	0.8 mg/m3 TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction.	None	None
Xylenes	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) PEL	None	None
Methyl methacrylate	50 ppm TWA 100 ppm STEL (Dermal sensitization)	100 ppm (410 mg/m3) PEL	None	50 ppm

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits. Use explosion-proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the

use of this product.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists.

**Eye/face protection:** Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

**Skin protection:**Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Gray / GreyOdor:SolventOdor threshold:Not available.

**pH:**Not applicable, Product is non-soluble (in water). **Vapor pressure:**< 30 hPa (20 °C (68°F)) < 150 hPa (50 °C (122°F))</p>

Boiling point/range: > 100 °C (> 212°F)

Melting point/ range: Not applicable, Product is a liquid

Flammable/Explosive limits - upper:
Autoignition temperature:
Not available.
Flammability:
Flammable liquid
Evaporation rate:
Not available.
Insoluble Water
Partition coefficient n-octanol/water
Not available.

(logarithmic value):

IDH number: 1238804

Product name: LOCTITE EDAG 440 AS E&C known as ELECTRODAG 440 AS 5 KG Page 4 of 8

 VOC content:
 30 % (calculated)

 Dynamic viscosity:
 4,500 - 7,000 mPa.s

 Kinematic viscosity:
 > 1,000 mm2/s

Particle characteristics: Not applicable, Product is a liquid

**Decomposition temperature:** Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

**Hazardous reactions:** None under normal processing.

**Hazardous decomposition** 

products:

IDH number: 1238804

Oxides of carbon. Oxides of Metals in Section 3. Toxic fumes. Irritating vapors.

**Incompatible materials:** Strong acids and oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

# 11. TOXICOLOGICAL INFORMATION

**Likely routes of exposure**: Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. May cause central nervous system effects with nausea,

dizziness and headache. Drowsiness.

Causes skin irritation. May cause allergic skin reaction. Causes serious eye irritation. Skin contact:

Eye contact:

May cause gastrointestinal tract irritation if swallowed. Not expected under normal conditions of Ingestion:

use. May cause an aspiration hazard if swallowed. Aspirated material can enter lungs and cause damage. This product contains nanoparticles. The particle size-related health effects of nanoparticles have not been fully investigated.

None	Hazardous Component(s)	LD50s and LC50s		
Oral LD50 (Rat) = 14,130 mg/kg	Nickel	None		
Inhalation LCS0 (Rat. 4 h) = 2.3.4 mg/l		Oral LD50 (Rat) = 14,130 mg/kg		
Inhalation LC50 (Rat, 4 h) = 0.74 mg/l		Inhalation LC50 (Rat, 4 h) = $> 23.4$ mg/l		
Inhalation LC50 (Rat, 4 h) = 2.4.9 mg/l   Inhalation LC50 (Rat, 4 h) = 1087 ppm   Inhalation LC50 (Rat, 4 h) = 1087 ppm   Inhalation LC50 (Rat, 4 h) = 271.5 mg/l   Inhalation LC50 (Rat, 4 h) = 271.5 mg/l   Inhalation LC50 (Rat, 4 h) = 211.5 mg/l   Inhalation LC50 (Rat, 4 h) = 1096 ppm		Inhalation LC50 (Rat, 4 h) = 0.74 mg/l		
Inhalation LC50 (Rat, 4 h) = 1109 ppm   Inhalation LC50 (Rat, 4 h) = 1087 ppm   Inhalation LC50 (Rat, 4 h) = 71.5 mg/l   Inhalation LC50 (Rat, 4 h) = 71.5 mg/l   Inhalation LC50 (Rat, 4 h) = 71.5 mg/l   Inhalation LC50 (Rat, 4 h) = 721.1 mg/l   Inhalation LC50 (Rat, 4 h) = 1096 ppm   Propanol, 1(or 2)-ethoxy-	n-butyl acetate			
Inhalation LC50 (Rat, 4 h) = 1087 ppm   Inhalation LC50 (Rat, 4 h) = > 71.5 mg/l Inhalation LC50 (Rat, 4 h) = > 71.5 mg/l Inhalation LC50 (Rat, 4 h) = > 71.5 mg/l Inhalation LC50 (Rat, 4 h) = > 71.1 mg/l Inhalation LC50 (Rat, 4 h) = 1096 ppm      Propanol, 1(or 2)-ethoxy-		· , ,		
Inhalation LC50 (Rat, 4 h) = > 71.5 mg/l Inhalation LC50 (Rat, 4 h) = > 12.1 mg/l Inhalation LC50 (Rat, 4 h) = > 10.96 ppm   None				
Inhalation LC50 (Rat, 4 h) = > 21.1 mg/l Inhalation LC50 (Rat, 4 h) = 1096 ppm   Propanol, 1(or 2)-ethoxy-				
Propanol, 1(or 2)-ethoxy-				
Oral LD50 (Rat) = 2.6 g/kg   Dermal LD50 (Rabbit) = 12,124 mg/kg   Inhalation LC50 (Rat, 4 h) = 12,5 - 28.8 mg/l   Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l   Inhalation LC50 (Rat, 4 h) = 28.1 mg/l   Inhalation LC50 (Rat, 4 h) = 28.1 mg/l   Inhalation LC50 (Rat, 4 h) = 30 mg/l   Oral LD50 (Rat) = 9.9 g/kg   Oral LD50 (Rat) = 9.2 g/kg   Oral LD50 (Rat) = 1.7.8 g/kg   Oral LD50 (Rat) = 1.7.8 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 10.6 g/kg   Oral LD50 (Rat) = 10				
Dermal LD50 (Rabbit) = 12,124 mg/kg	Propanol, 1(or 2)-ethoxy-			
Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l   Inhalation LC50 (Rat, 4 h) = 25.7 mg/l   Inhalation LC50 (Rat, 4 h) = 28.1 mg/l   Inhalation LC50 (Rat, 4 h) = 28.1 mg/l   Inhalation LC50 (Rat, 4 h) = 30 mg/l				
Inhalation LC50 (Rat, 4 h) = 25.7 mg/l   Inhalation LC50 (Rat, 4 h) = 28.1 mg/l   Inhalation LC50 (Rat, 4 h) = 30 mg/l   Inhalation LC50 (Rat) = 9.9 g/kg   Oral LD50 (Rat) = 17.8 g/kg   Oral LD50 (Rat) = 17.8 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 10.6 g/kg   Oral LD50 (Rat) = 10.6 g/kg   Oral LD50 (Rat) = 10.6 g/kg   Oral LD50 (Rat) = 7,060 mg/kg   Inhalation LC50 (Rat, 4 h) = 133.8 mg/l   Inhalation LC50 (Rat, 4 h) = 132.7 mg/l   Inhalation LC50 (Rat, 4 h) = 124.7 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 128.2 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Rat, 4 h) = 13.5 mg/l   Inhalation LC50 (Rat, 4 h) = 13.5 mg/l   Inhalation LC50 (Rat, 4 h) = 10.0 mg/l   Inhalation LC50 (Rat, 4 h) = 6350 ppm   Inhalation LC50 (Rat, 4 h) = 6350	I = 1			
Inhalation LC50 (Rat, 4 h) = 30 mg/l   Oral LD50 (Rat) = 9.9 g/kg   Oral LD50 (Rat) = 6.2 g/kg   Oral LD50 (Rat) = 17.8 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 11.5 g/kg   Oral LD50 (Rat) = 10.6 g/kg   Oral LD50 (Rat) = 7,060 mg/kg   Inhalation LC50 (Rat, 4 h) = 133.8 mg/l   Inhalation LC50 (Rat, 4 h) = 114.7 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Rat, 4 h) = 39 mg/l   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 4,300 mg/kg   Dermal LD50 (Rat) = 4,400 mg/kg   Dermal LD50 (Rat, 4 h) = 6347 ppm     Inhalation LC50 (Rat, 4 h) = 6347 ppm     Inhalation LC50 (Rat, 4 h) = 6347 ppm     Inhalation LC50 (Rat, 4 h) = 6350 ppm     Oral LD50 (Rat) = 5,46 g/kg	loluene			
Oral LD50 (Rat) = 9.9 g/kg				
Oral LD50 (Rat) = 6.2 g/kg				
Oral LD50 (Rat) = 17.8 g/kg		\		
Oral LD50 (Rat) = 11.5 g/kg		\		
Oral LD50 (Rat) = 10.6 g/kg		\		
Ethanol  Oral LD50 (Rat) = 7,060 mg/kg Inhalation LC50 (Rat, 4 h) = 133.8 mg/l Inhalation LC50 (Rat, 4 h) = 124.7 mg/l Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l Inhalation LC50 (Rat, 4 h) = 128.2 mg/l Inhalation LC50 (Rat, 4 h) = 128.2 mg/l Inhalation LC50 (Rat, 4 h) = 128.2 mg/l Inhalation LC50 (Rat, 4 h) = 116.9 mg/l Inhalation LC50 (Mouse, 4 h) = 39 mg/l  Silane, dichlorodimethyl-, reaction products with silica  None  Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rat) = 4,300 mg/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm		Oral LD50 (Mouse) = 3,450 mg/kg		
Inhalation LC50 (Rat, 4 h) = 133.8 mg/l   Inhalation LC50 (Rat, 4 h) = 124.7 mg/l   Inhalation LC50 (Rat, 4 h) = 124.7 mg/l   Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 128.2 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l     Inhalation LC50 (Mouse, 4 h) = 39 mg/l     Inhalation LC50 (Mouse, 4 h) = 39 mg/l     Inhalation LC50 (Rat) = 6,670 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 4,300 mg/kg   Oral LD50 (Rat) = 4,300 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 2,300 mg/kg   Oral LD50 (Rat, 4 h) = 6580 ppm   Inhalation LC50 (Rat, 4 h) = 6580 ppm   Inhalation LC50 (Rat, 4 h) = 5922 ppm   Inhalation LC50 (Rat, 4 h) = 5922 ppm   Inhalation LC50 (Rat, 4 h) = 6700 ppm   Inhalation LC50 (Rat, 4 h) = 6350 ppm   Oral LD50 (Rat) = 5,46 g/kg   Oral LD50 (Rat) = 3,500 mg/kg   Oral LD50 (Rat) = 17,800 mg/kg   Dermal LD50 (Rat) = 17,800 mg/kg   Inhalation LC50 (Rat, 4 h) = 4000 ppm   I				
Inhalation LC50 (Rat, 4 h) = 124.7 mg/l   Inhalation LC50 (Rat, 4 h) => 115.9 mg/l   Inhalation LC50 (Rat, 4 h) => 115.9 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 128.2 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Rat) = 6,670 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 4,300 mg/kg   Dermal LD50 (Rabbit) => 43 g/kg   Inhalation LC50 (Rat, 4 h) = 6580 ppm   Inhalation LC50 (Rat, 4 h) = 6680 ppm   Inhalation LC50 (Rat, 4 h) = 69247 ppm   Inhalation LC50 (Rat, 4 h) = 69247 ppm   Inhalation LC50 (Rat, 4 h) = 6900 ppm   Inhalation LC50 (Rat, 4 h) = 6350 ppm   Inhalation LC50 (Rat, 4 h) = 6350 ppm   Oral LD50 (Rat) = 5,46 g/kg   Oral LD50 (Rat) = 5,46 g/kg   Oral LD50 (Rat) = 17,800 mg/kg   Inhalation LC50 (Rat, 4 h) = 4000 ppm   Inhalation LC50 (Rat, 4 h)	Ethanol			
Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 128.2 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l     None      Silane, dichlorodimethyl-, reaction products with silica		\ ', ',		
Inhalation LC50 (Rat, 4 h) = 130.7 mg/l   Inhalation LC50 (Rat, 4 h) = 128.2 mg/l   Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Inhalation LC50 (Rat) = 6,670 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 3,523 - 8,600 mg/kg   Oral LD50 (Rat) = 4,300 mg/kg   Oral LD50 (Rat) = 5,43 g/kg   Inhalation LC50 (Rat, 4 h) = 6580 ppm   Inhalation LC50 (Rat, 4 h) = 6247 ppm   Inhalation LC50 (Rat, 4 h) = 5922 ppm   Inhalation LC50 (Rat, 4 h) = 6700 ppm   Inhalation LC50 (Rat, 4 h) = 6350 ppm   Oral LD50 (Rat) = 5,46 g/kg   Oral LD50 (Rat) = 3,500 mg/kg   Oral LD50 (Rat) = 3,500 mg/kg   Inhalation LC50 (Rat, 4 h) = 4000 ppm   I				
Inhalation LC50 (Rat, 4 h) = 116.9 mg/l   Inhalation LC50 (Mouse, 4 h) = 39 mg/l		` ' '		
Inhalation LC50 (Mouse, 4 h) = 39 mg/l   Silane, dichlorodimethyl-, reaction products with silica   None				
Silane, dichlorodimethyl-, reaction products with silica   Oral LD50 (Rat) = 6,670 mg/kg		· , ,		
Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm	Cilone diables diseath describes and describes with allies			
Oral LD50 (Rat) = 3,523 - 8,600 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm	Sharie, dichiorodimetriyi-, reaction products with shica	7.70.70		
Oral LD50 (Rat) = 4,300 mg/kg Dermal LD50 (Rabbit) = > 43 g/kg Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Xylenes  Inhalation LC50 (Rat, 4 h) = 6580 ppm Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm  Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Inhalation LC50 (Rat, 4 h) = 6247 ppm Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm  Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rat) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Inhalation LC50 (Rat, 4 h) = 5922 ppm Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm  Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm	Xylenes			
Inhalation LC50 (Rat, 4 h) = 6700 ppm Inhalation LC50 (Rat, 4 h) = 6350 ppm  Oral LD50 (Rat) = 5.46 g/kg  Oral LD50 (Rat) = 3,500 mg/kg  Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Inhalation LC50 (Rat, 4 h) = 6350 ppm				
Oral LD50 (Rat) = 5.46 g/kg Oral LD50 (Rat) = 3,500 mg/kg Dermal LD50 (Rabbit) = 17,800 mg/kg Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Ethylbenzene  Oral LD50 (Rat) = 3,500 mg/kg  Dermal LD50 (Rabbit) = 17,800 mg/kg  Inhalation LC50 (Rat, 4 h) = 4000 ppm				
Inhalation LC50 (Rat, 4 h) = 4000 ppm	Ethylbenzene	Oral LD50 (Rat) = 3,500 mg/kg		
Oral LD50 (Rat, 4 n) = 4000 ppm	Ettly 1501/20116	Dermal LD50 (Rabbit) = 17,800 mg/kg		
Ofal Lubu (kat) = 7,800 mg/kg		Innaiation LC50 (Rat, 4 n) = 4000 ppm  Oral LD50 (Rat) = 7,800 mg/kg		
Methyl methacrylate Oral LD50 (Rabbit) = 6,000 mg/kg	Methyl methacrylate			
Oral LD50 (Rat) = 9,400 mg/kg	monty) montaoryiato			

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Nickel			
n-butyl acetate	Irritant		Central nervous system
Propanol, 1(or 2)-ethoxy-	Irritant		Central nervous system Kidney

Toluene	Irritant		Behavioral Cardiac Central nervous system Developmental Ear
Ethanol	Irritant		Central nervous system
Silane, dichlorodimethyl-, reaction products with silica			
Xylenes	Irritant		Cardiac Central nervous system Kidney Liver
Ethylbenzene	Irritant		Central nervous system
Methyl methacrylate	Irritant	Allergen	Kidney Liver Mutagen Nervous System Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Nickel	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No
n-butyl acetate	No	No	No
Propanol, 1(or 2)-ethoxy-	No	No	No
Toluene	No	No	No
Ethanol	Known To Be Human Carcinogen.	Group 1	No
Silane, dichlorodimethyl-, reaction products with silica	No	No	No
Xylenes	No	No	No
Ethylbenzene	No	Group 2B	No
Methyl methacrylate	No	No	No

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Flammable liquids, n.o.s. (n-Butylacetate, Toluene)

Hazard class or division: 3
Identification number: UN 1993

Packing group:

DOT Hazardous Substance(s): Nickel, Xylene (mixed)

International Air Transportation (ICAO/IATA)

**Proper shipping name:** Flammable liquid, n.o.s. (n-Butylacetate, Toluene)

Hazard class or division: 3
Identification number: UN 1993
Packing group: II

Water Transportation (IMO/IMDG)

IDH number: 1238804

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (n-Butylacetate, Toluene)

Hazard class or division: 3
Identification number: UN 1993
Packing group: II

## 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2
CERCLA/SARA Section 313: This product contains the following toxic chemicals

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Nickel (CAS# 7440-02-0). Toluene (CAS# 108-88-3). Xylenes (CAS# 1330-20-

7). Ethylbenzene (CAS# 100-41-4).

CERCLA Reportable quantity: Nickel (CAS# 7440-02-0) 100 lbs. (45.4 kg)

n-butyl acetate (CAS# 123-86-4) 5,000 lbs. (2,270 kg) Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg)

Ethanol (CAS# 1330-20-7) 1,000 lbs. (45.4 kg) Xylenes (CAS# 1330-20-7) 100 lbs. (45.4 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

**Canada Regulatory Information** 

IDH number: 1238804

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 1,9,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 02/19/2025

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.