

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Denco 1940 **Item** 360033-2DRUM
Product Use Brake Cleaner
Company Name Denco Distributing, Inc. **Office** (616) 363-3669
Address 5151 Woodfield Ct. NE **Fax / email**
Grand Rapids MI 49525 **Web** <http://www.dencodistributing.com/>
EMERGENCY TELEPHONE NUMBER **CHEMTREC (800) 424-9300**

SECTION – 2 HAZARD IDENTIFICATION

Pictogram



Classification in accordance with 29 CFR §1910.1200
US OSHA / HCS 2012 regulation

Signal Word Danger

Hazards Physical, Health and Environmental 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
Harmful to aquatic life with long lasting effects

	<u>Hazard Classification</u>	<u>Code</u>
Category 2	Flammable Liquids	H225
Category 1	Aspiration Toxicity	H304
Category 2	Skin (Corrosion / Irritation)	H315
Category 2A	Eye (Damage / Irritation)	H319
Category 3	STOT Single Exposure	H336
Category 3	Chronic Toxicity (Aquatic)	H412

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

	<u>CODE</u>
Keep away from heat / sparks / open flames / hot surfaces – No smoking	P210
Do not spray on an open flame or other ignition source	P211
Keep container tightly closed	P233
Ground / bond container and receiving equipment	P240
Use explosion-proof electrical / ventilating / lighting /or /equipment	P241
Use only non-sparking tools	P242
Take precautionary measures against static discharge	P243
Avoid breathing dust / fume / gas / mist / vapors / spray	P261
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Use only outdoors or in a well-ventilated area	P271
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280
In case of inadequate ventilation wear respiratory protection	P285
In case of fire: Use dry chemicals, CO2, alcohol foam. Water spray to cool or protect exposed materials	P370+P378
Store in a well-ventilated place, Store locked up, Keep container tightly closed, Keep cool	P403+P405+P233+P235
Dispose of material in accordance with all State and Federal Guidelines and Regulations	P501

SECTION – 3 COMPOSITION INFORMATION (Exact percentage of the listed chemicals has been withheld as a trade secret)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<u>IMPURITIES</u>	<u>PERCENT</u>
Acetone	2-propanone	67-64-1	Water < 0.5%	40 - 70%
Heptane	Naphtha (petroleum), hydrotreated light	64742-49-0	C7-C8 Alkanes < 90% ; C7-C8 Cycloalkanes < 10%	20 - 60%

SECTION – 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for several minutes while lifting upper and lower eyelids, Remove contact lenses if present and easy to do without injury to the eye and continue rinsing, If irritation persists seek medical aid
Skin Contact Wash contaminated skin with plenty of soap and water, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention
Inhaled Not applicable under normal use, If irritation / dizziness / difficulty breathing is experienced, move person to fresh air, If symptoms persist, or person feels unwell, seek medical attention
Ingested DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into the lungs

Aspiration Hazard	Aspiration into the lungs can cause severe lung damage and is a medical emergency, If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into the lungs, Never give anything by mouth to an unconscious person. Call a physician or hospital emergency room immediately, If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing
Symptoms / Effects	No additional symptoms or effects beyond what is listed in "Section-2"

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media	SUITABLE: Use DRY chemicals, CO2 or alcohol foam, Water spray to cool or protect exposed materials, UNSUITABLE: Avoid using a water stream. Product will float upon water and could spread any fire
Explosion Hazard	Highly flammable liquid and vapor, May explode if ignited in an enclosed area, May form flammable or explosive vapor-air mixture, Flashback along vapor trail may occur, Containers may explode or erupt during a fire when heated excessively, Product will float and can be reignited on surface water
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon oxides, toxic fumes
Protective Equipment	Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

FLAMMABLE LIQUIDS HAZARD CLASSIFICATION

Criteria Flash point < 23°C (73°F) and initial boiling point > 35°C (95°F)
 NFPA Class IB
 GHS Category 2
 WHMIS Class B-2

NFPA HAZARD RATINGS

Health 2
 Flammability 3
 Reactivity 0
 Special Hazards

**SECTION – 6 ACCIDENTAL RELEASE MEASURES**

Emergency Procedures	Warn personnel to move away and stay upwind from spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from entering the hazard area, Eliminate ignition sources and ventilate area
Personal Precautions	Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill
Protective Equipment	Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron, Rubber Boots
Containment	Use sand or inert non-combustible absorbent pads to prevent spill from spreading, Prevent spill from entering the environment, waterways, sewers, basements or confined areas
Clean Up Procedures	Use sand or inert non-combustible absorbent pads or material. Collect spill using non-sparking tools and place into approved container for proper disposal
Disposal	Dispose of material in accordance with all State and Federal Guidelines and Regulations, Contact a licensed waste disposal contractor for proper disposal

SECTION – 7 HANDLING AND STORAGE

Handling	Keep away from incompatible materials, heat, sparks, electrical equipment, fire and all ignition sources, Do not get in eyes, on skin, or clothing, or breathe mist, vapor or fumes, Use appropriate safety equipment, and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly after handling, Use only non-sparking tools, Avoid free fall of liquid, Ground containers when transferring, Empty containers are very hazardous, Do not flame cut, saw or drill. Refer to NFPA-704 and/or API RP 2003 for specific bonding and grounding requirements, Consulting with a Safety Equipment Supplier is recommended
Storage	Keep container closed when not in use, Store in a cool, well-ventilated area and away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Store below 49°C (120°F) and in accordance with Class IB Flammable Liquids (GHS Category 2)
Incompatible Materials	Incompatible with, activated carbon, bases, phosphorous oxychloride, reducing agents, strong oxidizers

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE LIMITS**

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Significant Exposure
Acetone	250 ppm	500 ppm	750 ppm	1000 ppm (2400 mg/m³)	250 ppm (590 mg/m³)		CNS
Heptane	400 ppm (1640 mg/m³)	500 ppm (2050 mg/m³)	500 ppm (2000 mg/m³)		85 ppm (350 mg/m³)	440 ppm (1800 mg/m³)	CNS

PERSONAL PROTECTION

Eyes	Wear safety glasses or goggles or face shield when handling / using this material
Hands	Wear chemical resistant impervious gloves when handling / using this material
Lungs	Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced
Body	"If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when handling / using this material
Response	Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of material
Ventilation	Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA / NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

HMIS HAZARD RATINGS

Health 2
 Flammability 3
 Reactivity 0
 Personal Protection H

SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	-17°C (1.40°F) - Tag Closed Cup - [Acetone]	Specific Gravity / Density (g/ml)	~ 0.751
Flammable Limits (v)	Lower: 2.6%, Upper: 12.8% - [Acetone]	pH (± 0.3)	NA
Auto-Ignition Temp	465°C (869°F) - [Acetone]	Viscosity	ND
Physical State	Liquid	Freeze / Melting Point	-95°C (-139°F) - [Acetone]
Appearance	Clear	Boiling Range	56°C (132.8°F) - [Acetone]
Odor	Ketones	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 60%	Evaporation Rate (nBuAc=1)	ND
Volatiles	100%	Partition Coefficient	ND
VOC	< 42%	Molar (Mol / Liter)	1.423 M/L (70.296 g/mol)
LVP-VOC	0%	Decomposition Temperature	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	Stable under normal ambient and anticipated conditions of use
Hazardous Polymerization	Will not occur
Conditions To Avoid	Heat sources, sparks, flame or static discharge and incompatible materials
Incompatible Materials	Incompatible with, activated carbon, bases, phosphorous oxychloride, reducing agents, strong oxidizers
Hazardous Decomposition	Burning or thermal decomposition can produce, carbon oxides, toxic fumes

SECTION – 11 TOXICOLOGICAL INFORMATION**ROUTES OF EXPOSURE**

Eyes, Skin, Inhalation, Ingestion

ACUTE AND CHRONIC SYMPTOMS OF SINGLE / PROLONGED OR REPEATED OVEREXPOSURE

Ingested (Acute / Chronic)	May be harmful if swallowed, Ingestion may affect internal organs
Ingested (Acute)	May be fatal if swallowed and enters airways
Skin Contact (Acute / Chronic)	Causes skin irritation, possible defatting of the skin
Eye Contact (Acute / Chronic)	Causes serious eye irritation, burning, tearing, redness
Inhalation (Chronic)	Chronic inhalation of vapors may be harmful with prolonged extended exposure
Inhalation (Acute / Chronic)	May cause drowsiness or dizziness

ACUTE TOXICITY

Acute Tox Estimate	Oral: > 2,000 mg/kg	Dermal: > 2,000 mg/kg	Inhaled: D / M No Data mg/l	Inhaled: V > 20 mg/l
Acute Tox Category	No Category (>2000 mg/kg)	No Category (>2000 mg/kg)	No Category Dust or Mist (>5 mg/l)	No Category Vapor (>20 mg/l)

ADDITIONAL INFORMATION

Heptane is corrosive to the digestive tract if swallowed, Repeated or prolonged overexposure by inhalation of solvents can cause brain or other nervous system damage such as loss of memory, intellectual capacity or coordination (Painter's Syndrome)

Acetone may increase the toxicity to the liver and kidney of chemicals such as ethanol, trichloroethane and chloroform, Humans with liver or kidney disease may be at increased risk due to this protestation effect

CARCINOGENIC – This product contains concentrations ≥ 0.1% of the following (if listed below)

Chemical	NTP	ACGIH	IARC	GHS Category
None Listed	NA	NA	NA	NA

MUTAGENIC AND REPRODUCTIVE EFFECTS – This product contains concentrations ≥ 0.1% of the following (If listed below)

Chemical	Germ Cell Mutagenicity	Reproduction Toxin
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

Chemical	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Acetone	LD50	Oral	Rat	5,800 mg/kg		(>2000 mg/kg)
	LD50	Inhaled	Rat	100.2 mg/l	4 Hours (Vapor)	(>20 mg/l)
	LD50	Dermal	Guinea pig	7,426 mg/kg		(>2000 mg/kg)
Heptane	LD50	Oral	Rat	>5,000 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	>2,000 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

Chemical	Type	Species (Latin)	Result Value	Exposure Time	GHS Category
Heptane	LC50	Goldfish (Carassius auratus)	4 mg/l	24 Hours	2 (>1, ≤10 mg/l)
	EC50	Water Flea (Daphnia magna)	1.5 mg/l	48 Hours	2 (>1, ≤10 mg/l)
Acetone	LC50	Mosquito Fish (Gambusia affinis)	13,000 mg/l	48 Hours	4 (>100 mg/l)
	EC50	Water Flea (Daphnia magna)	8,800 mg/l	48 Hours	4 (>100 mg/l)
	LC50	Rainbow Trout (Oncorhynchus mykiss)	5,540 mg/l	96 Hours	4 (>100 mg/l)

Persistence And Degradability	Expected to biodegrade in soil and in aerobic conditions
Bioaccumulative Potential	Has the potential to bioaccumulate
Mobility In Soil	This material is a partially mobile liquid
Other Adverse Effects	Harmful to aquatic life
Environmental Toxicity	3.7 mg/l (Aquatic Estimate)

SECTION – 13 DISPOSAL CONSIDERATIONS

Disposal Statement	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER Dispose of any waste in accordance with all State and Federal Guidelines and Regulations
Container Disposal	Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal
Material Disposal	This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its ignitability and due to the composition contained in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264 and 270, Disposal can only occur in properly permitted facilities, Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

SECTION – 14 TRANSPORT INFORMATION**DOT CLASSIFICATION****UN Number**

UN 1993

Proper Shipping Name n.o.s. (Chemicals) or "Limits"

FLAMMABLE LIQUID n.o.s.(Acetone, Heptanes)

Hazard Class	Packing Group	Label Code	Reportabl Quantity (lb)	Response	Marine Pollutant	Hazard Label	Secondary
3	II	Flammable Liquid	(8,600) = 5,000 Acetone	128	Yes		

Marine Pollutant(s) ≥ 10% n.o.s.: Heptanes

SECTION – 15 REGULATORY INFORMATION

TSCA	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Chemical				
Naphtha (petroleum), hydrotreated light	Yes			
2-Propanone	Yes		Yes	Yes

<u>REPORTABLE QUANTITIES</u>		Extremely Hazardous	Reportable Quantity	Emission Reporting		
CHEMICAL NAME	RMP TQ Sec 112r	EPCRA Rq Sec 304	CERCLA Rq Sec 103	TRI Sec 313	RCRA Code	EPCRA TPQ Sec 302
Acetone			5000		U002	

<u>SARA</u>	Section 311	Section 311 / 312 Hazards				
Chemical	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
Heptane	Yes	Yes		Yes		
Acetone	Yes	Yes	Yes	Yes		

RIGHT TO KNOW – The components of this product are listed on the chemical inventories of the following States:

Chemical	State
Heptane	MA, NJ, PA
Acetone	CA, IL, MA, MN, NJ, NY, PA, RI

CALIFORNIA**WARNING:** This Product can expose you to chemicals (If Listed Below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

Prop 65 - Chemical	CAS No	Developmental	Carcinogen	Reproductive Harm	Birth Defects
Toluene < 0.05%	108-88-3	Yes		Yes	
Benzene < 0.001%	71-43-2	Yes	Yes		Yes
Ethylbenzene < 0.001%	100-41-4		Yes		
Naphthalene < 0.0001%	91-20-3		Yes		
Cumene < 0.001%	98-82-8		Yes		
n-Hexane < 0.05%	110-54-3			Yes	Yes

CLEAN AIR WATER ACTS

<u>CLEAN AIR WATER ACTS</u>		Clean Air Acts			Clean Water Acts		
Chemical	CAS No	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Heptane	64742-49-0				Oil		
Benzene < 0.001%	71-43-2	Yes			Yes		
Ethylbenzene < 0.001%	100-41-4	Yes			Yes	Yes	Yes
Toluene < 0.05%	108-88-3				Yes	Yes	Yes

INTERNATIONAL REGULATIONS – The components of this product are listed on the chemical inventories of the following countries:

Chemical	Country
Acetone	Australia (AICS), Canada (DSL), China (IECSC), Japan (ISCL), Philippines (PICCS), Korea (KECI), United Kingdom, European Union (EINECS)
Heptane	Australia (AICS), Canada (DSL), China (IECSC), Europe (REACH), Japan (ISCL), Malaysia (EHS), New Zealand (NZIoC), Philippines (PICCS), Korea (KECI), Taiwan (TCSI)

SECTION – 16 OTHER INFORMATION

SDS LEGEND DESCRIPTION

~	Approximately
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service Registry
CEIL	Ceiling Limit (15 minutes)
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act
CI	Cochlear Impairment
CNS	Central Nervous System
DOT	Department of Transportation
EC50	Concentration of a chemical that gives half-maximal response
EPA	Environmental Protection Agency
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)
GHS	Globally Harmonized System
HAP	California Hazardous Air Pollutant Clean Air Act
HMIS-A	Safety glasses
HMIS-B	Safety glasses, gloves
HMIS-C	Safety glasses, gloves, chemical apron
HMIS-D	Face shield, gloves, chemical apron
HMIS-E	Safety glasses, gloves, dust respirator
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator
HMIS-G	Safety glasses, gloves, vapor respirator
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator
HMIS-I	Safety glasses, gloves, dust and vapor respirator
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots
HMIS-X	Ask Supervisor
HS	California Hazardous Substance under the Clean Water Act
IARC	International Agency for Research on Cancer
IDHL	Immediately dangerous to health and life

IG / IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)
LC0	A concentration that is "Not" lethal to a given species in a given time
LC50	A concentration that is lethal to 50% of a given species in a given time
LD0	Dose that is "Not" lethal to a given species by a given route of exposure
LD50	Dose that is lethal to 50% of a given species by a given route of exposure
LEL	Lower Explosive Limit
NA	Not Applicable
ND	Not Determined / No Data
NE	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit (OSHA)
PNS	Peripheral Nervous System
PP	California Priority Pollutant under the Clean Water Act
REL	Recommended exposure limit (NIOSH)
RT / RS	Respiratory Tract / Respiratory System
Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit (15 minutes)
TC Lo	Lowest published "Toxic Concentration" given to a species
TD Lo	Lowest published "Toxic Dose" given to a species
TLV	Threshold Limit Value (ACGIH)
TP	California Toxic Pollutant under the Clean Water Act
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
UEL	Upper Explosive Limit

Denco Distributing, Inc.

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