



SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME HB-58B Brake Clean **PRODUCT USE** Solvent Cleaner **Revision Date** 08/05/2023
COMPANY NAME H & B Industries, Inc
PO Box 29838
Dallas, TX 75229

EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053

SECTION - 2 HAZARDS INFORMATION

Physical Hazards FLAMMABLE LIQUIDS-Category 2
Health Hazrds EYES-Category 2A; SKIN-Category 2; STOT SINGLE EXPOSURE-Category 1; STOT SINGLE EXPOSURE-Category 3; STOT REPEAT EXPOSURE-Category 2; ASPIRATION-Category 1; REPRODUCTIVE-Category 2; ACUTE TOXICITY-Category 4 (Oral)



Flammables



Acute Toxicity
Irritant (skin and eye)
Narcotic Effects
Respiratory Tract Irritant



Aspiration Toxicity
Reproductive Toxicity
Target Organ Toxicity

DANGER! Highly flammable liquid and vapor, Vapors may cause flash fire, Keep away from heat, sparks, open flames or hot surfaces Causes serious eye irritation, Causes skin irritation, Harmful if inhaled, Harmful if swallowed, May be fatal if swallowed and enters airways, May cause damage to organs, May cause respiratory irritation and/or drowsiness or dizziness, Do not get in eyes, on skin, or clothing, and avoid inhalation, Do not smoke, eat or drink while using, Use proper Safety Equipment, Wash thoroughly after handling, Avoid release into the environment
Suspected of damaging fertility or the unborn child

COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

SECTION - 3

CHEMICAL

NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Hexane (S)	Mixed Hexanes	110-54-3	Other Hexanes <40%	70 - 90%
Isopropyl Alcohol	Isopropanol, 2-propanol	67-63-0	Water <1%	10 - 20%
Methanol	Methyl Alcohol, Wood Alcohol	67-56-1	Water <1%	5 - 10%

SECTION - 4 FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with cold water for at least 15 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 obtain immediate medical attention, preferably from an ophthalmologist

SKIN CONTACT Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical attention

INHALATION Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention

INGESTION DO NOT INDUCE VOMITING. If person is fully conscious, rinse mouth out water. Contact a physician or poison control center immediately. 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

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Can cause serious eye irritation, discomfort, redness, tearing, or pain, by direct product contact or mists

Skin Can cause skin irritation, redness, drying or cracking

Inhalation Harmful if inhaled, Can cause irritation, to respiratory tract, and may cause, central nervous system depression

Ingestion Harmful if swallowed, Methanol, can affect target organs, kidneys, central nervous system, optic nerve, Effects may be delayed

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye irritation, redness, tearing, pain, painful sensitization to light, or vision impairment, by direct product contact, mist or vapors

Skin Causes skin irritation, Skin absorption may affect target organs, central nervous systems, optic nerve, through prolonged or repeated exposure

Inhalation Harmful if inhaled, Mist or vapor can cause irritation, to respiratory tract, nausea, headache, dizziness, drowsiness, central nervous system depression, sensitivity to light, possible blindness, through prolonged or repeated exposure, Effects may be delayed

Ingestion Harmful if swallowed, May be fatal if swallowed and enters airways, Can affect target organs, central nervous system, optic nerve, Effects may be delayed, Symptoms include, dizziness, drowsiness, sensitivity to light, blurred vision, blindness, death, The usual fatal dose of Methanol is 100 to 250 ml

SECTION – 5 FIRE FIGHTING MEASURES

Extinguishing Media SUITABLE Use DRY chemicals, CO2, 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

Hazardous Decomposition Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, formaldehyde, unburned hydrocarbons, and other toxic fumes

Reactive With Reactive with, strong oxidizing agents, strong bases, strong acids

Explosion Hazards May explode if ignited in an enclosed area. Flashback along vapor trail may occur

Static Discharge Expected to ignite product

Mechanical Impact Not expected to ignite product

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 I B

GHS Category 2

WHMIS Class B-2

NFPA HAZARD RATINGS

Health 2

Flammability 3

Reactivity 0

Personal Protection FBG



SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel to move away and stay upwind from spill

Personal Precautions Eliminate ignition sources and ventilate area

Protective Equipment Safety Glasses, Chemical Gloves, Approved Respirator, Chemical Apron and Rubber Boots

Containment Cover or dike any floor drains with an inert material to prevent product from entering the environment or spreading

Clean Up Procedures Use sand or inert non-combustible absorbent pads or material and place in a chemical waste disposal container

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

Handling DANGER, FLAMMABLE LIQUID, Keep away from incompatible materials, heat, sparks, electrical equipment, fire and all ignition sources, Use appropriate safety equipment, and adequate ventilation, Avoid eye and skin contact, Harmful if absorbed through skin, Avoid inhalation of mist, vapors or fumes, May cause respiratory irritation and/or drowsiness or dizziness, Harmful if inhaled, Harmful if swallowed, Do not smoke, eat or drink while using, Wash thoroughly after handling, Avoid release to the environment, 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/grounding requirements






Storage KEEP OUT OF REACH OF CHILDREN, Keep container closed when not in use, Store in a well-ventilated area and away from incompatible materials, Store away from heat, sparks, open flames or hot surfaces, Vapors may spread long distances and ignite explosively, Store below 49°C (120°F) and in accordance with Class 1B Flammable Liquids (GHS Category 2)

Incompatible Materials Incompatible with, strong oxidizing agents, strong bases, strong acids

SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS					Significant Exposure
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA PEL (TWA 8)	OSHA (CEIL)	
Hexane (S)	50 ppm	1000 ppm	500 ppm		SI
Isopropyl Alcohol	200 ppm (A4)	400 ppm	400 ppm	400 ppm	RT,CNS
Methanol	200 ppm (260 mg/m³)	250 ppm (310 mg/m³)	250 ppm (310 mg/m³)		EV,SA

PERSONAL PROTECTIVE EQUIPMENT

				
Chemical Safety Glasses, Goggles or Face Shield	Impervious Chemical Gloves	MSHA / NIOSH Approved Respirator At or Above Listed TLV's	Impervious Protective Clothing	Eye Wash and Safety Shower (Recommended)

Ventilation

Ventilate to keep vapors of this material below the lowest ppm listed above. If over TLV, in accordance with 29 CFR 1910.134, use a MSHA / NIOSH approved positive-pressure self-contained breathing apparatus

"Consulting with a Safety Equipment Supplier is recommended"

HMIS HAZARD RATINGS

Health 2

Flammability 3

Reactivity 0

Personal Protection H



SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	-26°C (-15°F) - TAG Closed Cup	Specific Gravity / Relative Density	0.687
Flammable Limits	1.2% Lower 7.7% Upper	Molecular Weight	78.48
Auto-Ignition Temp.	234.0 °C (453.2 °F)	Initial Boiling Point	ND
Physical State	Liquid	Boiling Range	ND
Appearance	Clear	Vapor Pressure	ND
Odor	Solvent	Vapor Density	ND
Odor Threshold	ND	Freeze Point	ND
Solubility	< 15%	Melting Point	ND
Volatiles	100%	Partition Coefficient	ND
VOC	100%	Decomposition Temperature	ND
pH (± 0.3)	NA	Evaporation Rate	ND

SECTION – 10 STABILITY AND REACTIVITY

Reactivity (Specific Test Data)	None available
Chemical Stability	Stable when stored below 49°C (120°F)
Hazardous Polymerization	Will not occur
Conditions To Avoid	Heat sources, sparks, flame or static discharge and incompatible materials
Incompatible Materials	Incompatible with, strong oxidizing agents, strong bases, strong acids
Thermal Decomposition	Burning or thermal decomposition can produce, carbon monoxide, carbon dioxide, formaldehyde, unburned hydrocarbons, and other toxic fumes

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

Eyes (Yes), Skin (Yes), Ingestion (Yes "Aspiration Hazard"), Inhalation (Yes "Mist, Vapor or Fumes")

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes	Can cause serious eye irritation, discomfort, redness, tearing, or pain, by direct product contact or mists
Skin	Can cause skin irritation, redness, drying or cracking
Inhalation	Harmful if inhaled, Can cause irritation, to respiratory tract, and may cause, central nervous system depression
Ingestion	Harmful if swallowed, Methanol, can affect target organs, kidneys, central nervous system, optic nerve, Effects may be delayed

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes	Causes serious eye irritation, redness, tearing, pain, painful sensitization to light, or vision impairment, by direct product contact, mist or vapors
Skin	Causes skin irritation, Skin absorption may affect target organs, central nervous systems, optic nerve, through prolonged or repeated exposure
Inhalation	Harmful if inhaled, Mist or vapor can cause irritation, to respiratory tract, nausea, headache, dizziness, drowsiness, central nervous system depression, sensitivity to light, possible blindness, through prolonged or repeated exposure, Effects may be delayed
Ingestion	Harmful if swallowed, May be fatal if swallowed and enters airways, Can affect target organs, central nervous system, optic nerve, Effects may be delayed, Symptoms include, dizziness, drowsiness, sensitivity to light, blurred vision, blindness, death, The usual fatal dose of Methanol is 100 to 250 ml

Acute Tox Calculated **Oral:** 1,817 mg/kg **Dermal:** 3,626 mg/kg **Inhaled:** 142.0 mg/L

Acute Tox Category Category 4 (Oral >300, ≤2000 mg/kg), "Not applicable (Dermal > 2,000 mg/kg)", "Not applicable (Inhaled > 20 mg/L) Vapors"

Additional Info Methanol is regarded as a cumulative poison because it is slowly eliminated from the body. Daily exposures may result in the accumulation of a harmful amount, Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness or coma. A person may get better but then worse up to 30 hours later. Overexposure can be fatal, NOTE: Intentional misuse by deliberately concentrating and inhaling this product can be harmful or fatal

Target Organs Kidneys, Liver, Eyes (Lens or cornea), Brain, Skin, Auditory System, Cardiovascular System, Central Nervous System, Optic Nerve, Upper Respiratory Tract

Medical Conditions Preexisting, skin, liver, kidney, central nervous system, blood, respiratory, cardiovascular, optic nerve, hearing disorders may be aggravated by exposure to this product

Notes to Physician In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption, In case of skin injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss

CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	NTP	ACGIH	IARC	GHS Category
----------------------	------------	--------------	-------------	---------------------

None Listed

MUTAGENIC AND REPRODUCTIVE EFFECTS – May cause fetal and reproductive abnormalities.

CHEMICAL NAME	Germ Cell Mutagenicity	Toxic to Reproduction
----------------------	-------------------------------	------------------------------

Methanol 2 (Warning, Suspected of damaging fertility or the unborn child)

Hexane (S) 2 (Warning, Suspected of damaging fertility or the unborn child)

SECTION – 11 TOXICOLOGICAL INFORMATION - CONTINUED**COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
Hexane (S)	LD50	Oral	Rat	25,000 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	3,000 mg/kg		(>2000 mg/kg)
	LD50	Inhaled	Rat	169.19 mg/L	4 Hours (Vapor)	(>20 mg/L)
Isopropyl Alcohol	LD50	Oral	Rat	5,045 mg/kg		(>2000 mg/kg)
	LD50	Dermal	Rabbit	12,870 mg/kg		(>2000 mg/kg)
	LC50	Inhalation	Rat	78.6 mg/L	4 Hours (Vapor)	(>2000 mg/kg)
Methanol	LD50	Oral	Rat	1,187 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Inhaled	Rat	128.2 mg/L	4 Hours (Vapor)	(>20 mg/L)
	LDLO	Oral	Human	143 mg/kg		3 (>50, ≤300 mg/kg)
	LD50	Dermal	Rabbit	17,100 mg/kg		(>2000 mg/kg)

SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Hexane (S)	LD50	Fathead Minnow (Pimephales promelas)	2.5 mg/L	96 Hours	2 (>1, ≤10 mg/L)
	EC50	Water Flea (Daphnia magna)	3,878 mg/L	48 Hours	4 (>100 mg/L)
Isopropyl Alcohol	LC50	Fish (Leuciscus idus)	>100 mg/L	96 Hours	4 (>100 mg/L)
	EC50	Water Flea (Daphnia magna)	5,102 mg/L	24 Hours	4 (>100 mg/L)
Methanol	LC50	Fathead Minnow (Pimephales promelas)	9,640 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Bluegill (Lepomis macrochirus)	15,400 mg/L	96 Hours	4 (>100 mg/L)
	LC50	Rainbow Trout (Oncorhynchus mykiss)	8,000 mg/L	48 Hours	4 (>100 mg/L)
	LC50	Fathead Minnow (Pimephales promelas)	29.4 g/L	96 Hours	4 (>100 mg/L)

Persistence And Degradability Based on similar materials, this product will have a significant tendency to partition to air

Bio-accumulative Potential Has potential to bio-accumulate

Mobility In Soil This material is a mobile liquid

Other Adverse Effects Toxic to aquatic life with long lasting effects

SECTION – 13 DISPOSAL CONSIDERATIONS

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

ENVIRONMENTAL FATE

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 containing 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 waster 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**D.O.T. CLASSIFICATION**

UN Number	Proper Shipping Name n.o.s. (Chemicals) or "Limits"				
UN 1268	PETROLEUM DISTILLATES, n.o.s. (Hexane (S), Isopropyl Alcohol, Methanol)				
Hazard Class	Packing Group	Label Codes	Reportable Quantity (lbs)	Response Code	Marine Pollutant
3	II	Flammable Liquids	5000	128	No
Placard Label	Hazard Label	Secondary			



SECTION – 15 REGULATORY INFORMATION**TSCA**

CHEMICAL NAME	Sec 8(b) Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(b) Export Notification
Hexane (S)	Yes			
Isopropyl Alcohol	Yes	Yes		
Methanol	Yes	Yes		Yes

REPORTABLE QUANTITIES

CHEMICAL NAME	Extremely Hazardous	Reportable Quantity	Emission Reporting	RCRA Code	RMP TQ Sec 112r
Methanol	EPCRA TPQ Sec 302 EPCRA RQ Sec 304 CERCLA RQ Sec 103	5000	TRI Sec 313	U154	
2-Propanol			Yes		
n-Hexane		5000	Yes		

SARA

CHEMICAL NAME	Section 311			Section 311 / 312 Hazards		
	Hazardous Chemical	Acute	Chronic	Flammable	Pressure	Reactive
n-Hexane	Yes	Yes	Yes	Yes		
Isopropyl Alcohol	Yes	Yes	Yes	Yes		
Methanol	Yes	Yes	Yes	Yes		

RIGHT TO KNOW

CHEMICAL NAME	STATE												
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
n-Hexane						Yes		Yes			Yes		
Isopropyl Alcohol			Yes			Yes		Yes		Yes	Yes	Yes	
Methanol	Yes					Yes		Yes			Yes		

CALIFORNIA

CHEMICAL NAME	CAS #	WARNING! This product contains chemicals known to the state of California to cause:			
Methanol	67-56-1	Birth Defects	Reproductive Harm	Carcinogen	Developmental
					Yes

CLEAN AIR WATER ACTS

CHEMICAL NAME	CAS #	Clean Air Acts			Clean Water Acts		
		HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Methanol	67-56-1	Yes					

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

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
n-Hexane	Yes	Yes	Yes	Yes	Yes	Yes
Isopropyl Alcohol	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

CHEMICAL NAME	DSL Class Description
Hexane (S), Isopropyl Alcohol, Methanol	Yes B-2 Flammable Liquids; Flashpoint < 37.8° C (100°F) D-2B Materials Causing Other Toxic Effects; Toxic Material
Hexane (S), Methanol	D-2A Materials Causing Other Toxic Effects; Very Toxic Material
Methanol	D-1B Materials Causing Immediate and Serious Toxic Effects; Toxic Material

SECTION – 16 OTHER INFORMATION**Standard Risk And Safety Phrases**

Code	Definition (R-Phrases / S-Phrases)
R11	Highly flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R51	Toxic to aquatic organisms
R61	May cause harm to the unborn child
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
S2	Keep out of the reach of children
S9	Keep container in a well-ventilated place
S15	Keep away from heat
S16	Keep away from sources of ignition - No smoking
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27	Take off immediately all contaminated clothing
S38	In case of insufficient ventilation wear suitable respiratory equipment
S61	Avoid release to the environment
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S20/21	When using do not eat, drink or smoke
S24/25	Avoid contact with skin and eyes
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection

SDS LEGEND DESCRIPTION

ACGIH American Conference of Governmental Industrial Hygienists	LC50 A concentration that is lethal to 50% of a given species in a given time
CAS Chemical Abstracts Service Registry	LD50 Dose that is lethal to 50% of a given species by a given route of exposure
CEIL Ceiling Limit (15 minutes)	LEL Lower Explosive Limit
CERCL Comprehensive Environmental Response, Compensation, and Liability Act	LD Liver Damage
CI Cochlear Impairment	NA Not Applicable
CNS Central Nervous System	ND Not Determined
EC50 Concentration of a chemical that gives half-maximal response	NFPA National Fire Protection Association
EPA Environmental Protection Agency	NIOSH National Institute for Occupational Safety and Health
Eye (EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NE Not Established
FBG Full Bunker Gear	NTP National Toxicology Program
GHS Globally Harmonized System	OSHA Occupational Safety and Health Administration
HAP California Hazardous air pollutant Clean Air Act	PEL Permissible Exposure Limit (OSHA)
HMIS-A Safety Glasses	PNS Peripheral Nervous System
HMIS-B Safety glasses, gloves	PP California Priority Pollutant under the Clean Water Act
HMIS-C Safety glasses, gloves, chemical apron	REL Recommended exposure limit (NIOSH)
HMIS-D Face shield, gloves, chemical apron	RT Upper Respiratory Tract
HMIS-E Safety glasses, gloves, dust respirator	Skin (SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F Safety glasses, gloves, chemical apron, dust respirator	SARA Superfund Amendments and Reauthorization Act
HMIS-G Safety glasses, gloves, vapor respirator	STEL Short Term Exposure Limit (15 minutes)
HMIS-H Splash goggles, gloves, chemical apron, vapor respirator	TC Lo Air concentration that is lethal to 50% of a given species in a given time
HMIS-I Safety glasses, gloves, dust and vapor respirator	TD Lo Lowest dose that is toxic to a given species
HMIS-J Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV Threshold Limit Value (ACGIH)
HMIS-K Air line hood or mask, gloves, full chemical suit, boots	TP California Toxic Pollutant under the Clean Water Act
HMIS-X Ask Supervisor	TSCA Toxic Substances Control Act
HS California Hazardous Substance under the Clean Water Act	TWA Time Weighted Average (8 hours)
KD Kidney Damage (nephropathy)	UEL Upper Explosive Limit

H & B Industries, Inc. has compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.