Chemtron Science Labs. Pvt. Ltd.

EL-47, Electronics Zone, Mahape MIDC, Navi Mumbai, 400710, India

n-Hexane (0.10% - 0.90%) in Air

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/22/2014 Supersedes: 09/03/2014 Version: 1.1

1.1.	Product identifier			
Product	t form	: Mixture		
Product name Product code		: n-Hexane (0.10% - 0.90%) in Air : SG-2002-01506		
Use of t	the substance/mixture	: Test gas/Calibration gas.		
EL-47, Mahape T +9122	Details of the supplier of the safety ron Science Labs Pt. Ltd Electronics Zone, e MIDC, Navi Mumbai,400710. India 2-67847300 memtronscience.com	data sheet		
1.4.	Emergency telephone number			
Emerge	ency number	: CHEMTRON: +9122-67847300		
Compre Repr. 2	Classification of the substance or i fication (GHS-US) essed gas t of H-phrases: see section 16	H280 H361		
2.2.	Label elements			
	S labeling			
	pictograms (GHS-US)	:		
		GHS04 GHS08		
Signal v	word (GHS-US)	: Warning		
Hazard	statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated H361 - Suspected of damaging fertility. Suspected of damaging the unborn child (Inhalation)		

Precautionary statements (GHS-US)

: P202 - Do not handle until all safety precautions have been read and understood P271 - Use only outdoors or in a well-ventilated area

P261 - Avoid breathing fume, gas, vapors

CGA-HG24 - Supports combustion.

- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing CGA-PG05 - Close valve after each use and when empty

- CGA-PG10 Use only with equipment rated for cylinder pressure
- CGA-PG14 Approach suspected leak area with caution
- CGA-PG21 Open valve slowly CGA-PG02 Protect from sunlight when ambient temperature exceeds 52°C (125°F)
- P403 Store in a well-ventilated place

Other hazards 2.3.

No additional information available

Unknown acute toxicity (GHS-US) 2.4. Not applicable

3.1. Substance

Not applicable

12/22/2014

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Name	Product identifier	%	Classification (GHS-US)
Compressed air	(CAS No) 132259-10-0	99.1 - 99.9	Compressed gas, H280
Hexane	(CAS No) 110-54-3	0.1 - 0.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

Full text of H-phrases, see section 16	
SECTION 4: First aid measures	
4.1. Description of first aid measures	à chun chun chun chun chun chun chun chun
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Adverse effects not expected from this product.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Symptoms similar to those listed under inhalation.
Symptoms/injuries after inhalation	: Suspected of damaging fertility. Suspected of damaging the unborn child. :
Symptoms/injuries after skin contact	Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure. :
Symptoms/injuries upon intravenous administration	Not known.
Chronic symptoms	: Suspected of damaging fertility. Suspected of damaging the unborn child.
4.3. Indication of any immediate med	dical attention and special treatment needed
If you feel unwell, seek medical advice. If bre	athing is difficult, give oxygen.
SECTION 5: Firefighting measures	S
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: The product is not flammable.
Explosion hazard	: Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: None known.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire
	fighters. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Ensure adequate ventilation.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment consistent with the site emergency plan.
Emergency procedures	: Escape the danger area by the closest safe route. Close doors and windows of adjacent

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6.1.2.	For emergency responders	
Protectiv	ve equipment	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
Emerge	ncy procedures	: Evacuate and limit access. Ventilate area.
6.2.	Environmental precautions	
Try to st	op release if safe to do so.	
6.3.	Methods and material for containm	nent and cleaning up
For cont	ainment	: Try to stop release if safe to do so.
Methods	s for cleaning up	: Dispose of this material and its container in accordance with local regulations.
6.4.	Reference to other sections	
See also	o Sections 8 and 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Addition	al hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure.
Precauti	ions for safe handling	: Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.
Hygiene	measures	: Do not eat, drink or smoke when using this product.
7.2.	Conditions for safe storage, includ	ling any incompatibilities
Technica	al measures	: Comply with applicable regulations.
Storage	conditions	: Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area.
Incompa	atible products	: None known.
Incompa	atible materials	: Flammable materials.
7.3.	Specific end use(s)	

Test gas/Calibration gas.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

n-Hexane (0.10% - 0.90%) in Air			
ACGIH	Not applicable		
OSHA	Not applicable	Not applicable	
Hexane (110-54-3)			
ACGIH	ACGIH TWA (ppm)	50 ppm	
OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	500 ppm	
Compressed air (132259-10-0)			
ACGIH	Not applicable		

OSHA	ι.	Not applicable
8.2.	Exposure controls	
Appropr	iate engineering controls	Ensure exposure is below occupational exposure limits. Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Alarm detectors should be used when toxic gases may be released. Consider work permit system e.g.

	for maintenance activities.
Hand protection	: Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection. :
Eye protection	Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection. : Wear
Skin and body protection	suitable protective clothing, e.g lab coats, coveralls or flame resistant clothing. : None
Respiratory protection	necessary during normal and routine operations. See sections 5 & 6.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

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Other information

: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection.

Other Information	: wear safety shoes while handling containers. 29 GFR 1910.136: Foot Protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c	hemical properties	
Physical state	: Gas	
Appearance	: Clear, colorless gas.	
Molecular mass	: Not applicable for gas-mixtures.	
Color	: Colorless	
Odor	: mild;gasoline-like	
Odor threshold	: No data available	
pH	: Not applicable for gas-mixtures.	
Relative evaporation rate (butyl acetate=1)	: No data available	
Relative evaporation rate (ether=1)	: Not applicable for gas-mixtures.	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not flammable - not combustible	
Vapor pressure	: Not applicable.	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Relative gas density	: Lighter or similar to air.	
Solubility	: Water: Solubility in water of component(s) of the mixture : •: Insoluble •:	
Log Pow	: Not applicable for gas-mixtures.	
Log Kow	: Not applicable for gas-mixtures.	
Viscosity, kinematic	: Not applicable.	
Viscosity, dynamic	: Not applicable.	
Explosive properties	: Not applicable - not flammable.	
Oxidizing properties	: Not combustible but enhances combustion of other substances. Supports combustion.	
Explosive limits	: Not applicable - not flammable	
9.2. Other information		
Additional information	: None.	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
None known.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions Can form explosive mixtures with flammable mate	erials	
10.4. Conditions to avoid None under recommended storage and handling	conditions (see section 7).	
10.5. Incompatible materials		
None known.		
10.6. Hazardous decomposition products		
	ardous decomposition products should not be produced.	
-		
SECTION 11: Toxicological informat	lon	
11.1. Information on toxicological effects		

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ccording to Federal Register / Vol. 77, No. 58 / Monday,	
Acute toxicity	: Not classified
Hexane (110-54-3)	
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat (ppm)	48000 ppm/4h
Compressed air (132259-10-0)	
LC50 inhalation rat (ppm)	820000 ppm/4h
Skin corrosion/irritation	: Not classified
	pH: Not applicable for gas-mixtures.
Serious eye damage/irritation	: Not classified
	pH: Not applicable for gas-mixtures.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child (Inhalation).
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
. ,	
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Suspected of damaging fertility. Suspected of damaging the unborn child.
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: Suspected of damaging fertility. Suspected of damaging the unborn child.
SECTION 12: Ecological information	
12.1. Toxicity	
	: Classification criteria are not met.
12.1. Toxicity Ecology - general	: Classification criteria are not met.
12.1. Toxicity Ecology - general Hexane (110-54-3)	
12.1. Toxicity Ecology - general	: Classification criteria are not met. 2.1 - 2.98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
12.1. Toxicity Ecology - general Hexane (110-54-3)	
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Iccording to Federal Register / Vol. //, No. 58 / Monday, M	arch 20, 2012 / hules and hegulations
12.5. Other adverse effects	
Effect on ozone layer	: None.
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Waste disposal recommendations	: Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s.
UN-No.(DOT)	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.
Hazard labels (DOT)	: 2.2 - Non-flammable gas
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted Ensure valve protection device (where provided) is correctly fitted.
ADR No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	2.2 - Non-flammable, non-toxic gases
Air transport	
UN-No.(IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2
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SECTION 15: Regulatory information		
15.1. US Federal regulations		
n-Hexane (110-54-3)		
Listed on the United States TSCA (Toxic Substatisted on United States SARA Section 313	ances Control Act) inventory	
SARA Section 313 - Emission Reporting 1.0 %		
SARA Section 313 - Emission Reporting	1.0 %	

15.2. International regulations

CANADA

n-Hexane (110-54-3)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Compressed air (132259-10-0)		
WHMIS Classification	Class A - Compressed Gas	

EU-Regulations

n-Hexane (110-54-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

n-Hexane (110-54-3)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List)

Compressed air (132259-10-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals)

15.3. US State regulations

n-Hexane (110-54-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information	
Indication of changes	 Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
Other information	 This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.

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Full text of H-phrases:	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Compressed gas	Gases under pressure Compressed gas
Flam. Liq. 2	Flammable liquids Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of Chemtron India's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this product is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.