

Nitric acid concentrate

38274-1EA		
/ersion 1.1	Revision Date 11/18/2019	Print Date 05/15/2023
SECTION 1. IDENTIFICATION		
Product name	: Nitric acid concentrate	
Number	: 00000021484	
Product Use Description	: Laboratory chemicals	
Manufacturer or supplier's details For more information call	 Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442 1-800-368-0050 4.024 740 Mandau Eridau Friday 6 	
	+1-231-726-3171(Monday-Friday, 9	3:00am-5:00pm)
In case of emergency call	 Medical: 1-800-498-5701 or +1-30 Transportation (CHEMTREC): 1-8 +1-703-527-3887 	
	: : (24 hours/day, 7 days/week)	
SECTION 2. HAZARDS IDENTIF	ICATION	
Emergency Overview		
Form	: liquid	
Color	: colourless	
Odor	: weak	
Hazard Summary	: Risk of serious damage to the lung product discolours the skin.	gs (by inhalation). The
Classification of the substa	nco or mixturo	
Classification of the substance		
or mixture	Acute toxicity, Category 3, Inhalat Skin corrosion, Category 1A Serious eye damage, Category 1	tion
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GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger Hazard statements : May be corrosive to metals. Causes severe skin burns and eye damage. Toxic if inhaled. Precautionary statements : Prevention: Keep only in original container. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. **Response:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant. Page 2 / 14



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Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	:	HNO3
Formula	:	HNO

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Nitric acid	7697-37-2	>=25.00 - <50.00 %
Water	7732-18-5	>50.00 - <=75.00 %

SECTION 4. FIRST AID MEASURES

General advice	:	First aider needs to protect himself. Move out of dangerous area. Immediately take off contaminated clothing and rinse body with plenty of water.
Inhalation	:	Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.
Skin contact	:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Eye contact	:	Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
Ingestion	:	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician immediately.
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SAFETY DATA SHEET Honeyweil Nitric acid concentrate Sagard-1EA Version 1.1 Revision Date 11/18/2019 Print Date 05/15/2023 Notes to physician Indication of immediate medical attention and special treatment needed, if : Health injuries may be delayed. Medical supervision for minimum 48 hours.

SECTION 5. FIREFIGHTING MEASURES

necessary

Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry powder
Specific hazards during firefighting	 May intensify fire; oxidizer. Contact with metals liberates hydrogen gas. Cool closed containers exposed to fire with water spray. In case of fire hazardous decomposition products may be produced such as: nitrogen oxides (NOx)
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas.
Further information	 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. The product itself does not burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	 Immediately evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Ensure adequate ventilation. 	
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		Do not breathe vapours or spray mis Do not get in eyes, on skin, or on clo	
Environmental precautions	:	Prevent further leakage or spillage if Discharge into the environment must Do not flush into surface water or sat Prevent product from entering drains Collect contaminated fire extinguishin must not be discharged into drains.	t be avoided. nitary sewer system. s.
Methods and materials for containment and cleaning up	:	Ventilate the area. With acids neutralization takes place heat. Neutralise with the following product lime Soak up with inert absorbent materia Sweep up and shovel into suitable co Dispose of in accordance with local r	(s): al. ontainers for disposal.
		AGE	
CTION 7. HANDLING AND ST Handling	OR		
CTION 7. HANDLING AND ST Handling Precautions for safe handling	:	Wear personal protective equipment Use only in well-ventilated areas. When diluting, add acids to water, ne On dilution or dissolving in water, con occurs. Do not breathe vapours or spray mis Do not get in eyes, on skin, or on clo	ever the other way around. nsiderable heating always st.
Handling Precautions for safe	:	Wear personal protective equipment Use only in well-ventilated areas. When diluting, add acids to water, ne On dilution or dissolving in water, con occurs. Do not breathe vapours or spray mis	ever the other way around. nsiderable heating always st. othing.
Handling Precautions for safe handling Advice on protection against	:	Wear personal protective equipment Use only in well-ventilated areas. When diluting, add acids to water, ne On dilution or dissolving in water, con occurs. Do not breathe vapours or spray mis Do not get in eyes, on skin, or on clo	ever the other way around. nsiderable heating always st. othing.
Handling Precautions for safe handling Advice on protection against fire and explosion	:	Wear personal protective equipment Use only in well-ventilated areas. When diluting, add acids to water, ne On dilution or dissolving in water, con occurs. Do not breathe vapours or spray mis Do not get in eyes, on skin, or on clo	ever the other way around. nsiderable heating always st. othing. protection. ry, cool and well-ventilated ances. rials.
Handling Precautions for safe handling Advice on protection against fire and explosion Storage Conditions for safe storage, including any	:	Wear personal protective equipment Use only in well-ventilated areas. When diluting, add acids to water, ne On dilution or dissolving in water, con occurs. Do not breathe vapours or spray mis Do not get in eyes, on skin, or on clo Normal measures for preventive fire Store in original container. Keep containers tightly closed in a di place. Store away from incompatible substa Do not store near combustible mater	ever the other way around. nsiderable heating always st. othing. protection. ry, cool and well-ventilated ances. rials.



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38274-1EA Version 1.1 Revision Date 11/18/2019 Print Date 05/15/2023 SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. : Use with local exhaust ventilation. Engineering measures : Face-shield Eye protection Safety goggles : Impervious gloves Hand protection Gloves must be inspected prior to use. Replace when worn. Wear suitable protective equipment. Skin and body protection : Wear as appropriate: Complete suit protecting against chemicals Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Hygiene measures : General industrial hygiene practice. Take off all contaminated clothing immediately.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Nitric acid	7697-37-2	TWA : Time weighted average	(2 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Nitric acid	7697-37-2	STEL : Short term exposure limit	(4 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
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Nitric acid	7697-37-2	STEL : Short term exposure limit	10 mg/m3 (4 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Nitric acid	7697-37-2	REL : Recomm ended exposure limit (REL):	5 mg/m3 (2 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Nitric acid	7697-37-2	PEL : Permissi ble exposure limit	5 mg/m3 (2 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Nitric acid	7697-37-2	STEL : Short term exposure limit	10 mg/m3 (4 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Nitric acid	7697-37-2	TWA : Time weighted average	5 mg/m3 (2 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
CTION 9. PHYSICA Physical state	L AND CHEMICAI		IES		·
Color		lourless			
Odor	: We	eak			
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sion 1.1	Revision Date 11/18/2019	Print Date 05/15/20
Odor threshold	: Note: no data available	
рН	: Note: acidic	
Melting point/range	: Note: no data available	
Boiling point/boiling range	: ca. 100 °C	
Flash point	: Note: Not applicable	
Evaporation rate	: Note: no data available	
Flammability	: Not applicable	
Lower explosion limit	: Note: Not applicable	
Upper explosion limit	: Note: Not applicable	
Vapor pressure	: Note: no data available	
Vapor density	: Note: no data available	
Density	: 1.200 g/cm3 at 20 °C	
Water solubility	: Note: completely miscible	
Partition coefficient: n-octanol/water	: Note: no data available	
Ignition temperature	: Note: Not applicable	
Auto-ignition temperature	: Note: not auto-flammable	
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Viscosity, dynamic: Note: no data availableViscosity, kinematic: Note: no data availableOxidizing properties: The substance or mixture is not classified as oxMolecular weight: 63.01 g/molBulk density: Note: Not applicableCorrosivity: Note: Corrosive to metals	idizing.
Viscosity, kinematic : Note: no data available Oxidizing properties : The substance or mixture is not classified as ox Molecular weight : 63.01 g/mol Bulk density : Note: Not applicable Corrosivity : Note: Corrosive to metals CTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Gives off hydrogen by reaction with metals. Hazardous polymerisation does not occur. Conditions to avoid : Keep away from heat. Keep away from combustible material.	idizing.
Oxidizing properties : The substance or mixture is not classified as ox Molecular weight : 63.01 g/mol Bulk density : Note: Not applicable Corrosivity : Note: Corrosive to metals CTION 10. STABILITY AND REACTIVITY Chemical stability : Stable under normal conditions. Possibility of hazardous reactions : Gives off hydrogen by reaction with metals. Hazardous polymerisation does not occur. Conditions to avoid : Keep away from heat. Keep away from combustible material.	idizing.
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reactions Hazardous polymerisation does not occur. Conditions to avoid : Keep away from heat. Keep away from combustible material.	
Keep away from combustible material.	
Protect from moisture.	
Incompatible materials : As oxidising agent, attacks organic substances paper, fats. Corrosive in contact with metals Gives off hydrogen by reaction with metals. Reactions with organic substances. Flammable materials Incompatible with bases.	such as wood,
Hazardous decomposition products : In case of fire hazardous decomposition produced such as: nitrogen oxides (NOx)	ts may be
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SECTION 11. TOXICOLOGICAL INFORMATION Acute oral toxicity : Note: no data available Toxicity is determined by the corrosivity of the product. Acute inhalation toxicity : LC50: 2500 ppm Exposure time: 1 h Species: Rat Method: OECD Test Guideline 403 Acute dermal toxicity : Note: Toxicity is determined by the corrosivity of the product. Skin irritation : Species: Rabbit Result: Corrosive : Note: no data available Eye irritation Sensitisation : Note: no data available Repeated dose toxicity : Note: Not classified due to data which are conclusive although insufficient for classification. Genotoxicity in vitro : Note: Not classified due to data which are conclusive although insufficient for classification.

Further information : Note: Causes severe burns.

SECTION 12. ECOLOGICAL INFORMATION

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Ecotoxic	city effects				
Toxicity	to fish	: Note: no data available			
	to daphnia and other nvertebrates	: Note: no data available			
Toxicity	to algae	: Note: no data available	lote: no data available		
Eliminat	ion information (pers	istence and degradability)			
Biodegra	adability	: Note: Not applicable The methods for determining biod applicable to inorganic substances			
Further	information on ecolo	ду			
Ecotoxic	cology Assessment				
Not appli	al ecological	: Neutralisation will reduce ecotoxic	effects.		
ECTION 13	. DISPOSAL CONSID	ERATIONS			
Disposal	methods	: Observe all Federal, State, and Lo regulations.	ocal Environmental		
ECTION 14	. TRANSPORT INFOR	MATION			
DOT	UN/ID No. Proper shipping na Class Packing group Hazard Labels	: UN 2031 me : Nitric acid 8 II 8			
ΙΑΤΑ	UN/ID No. Description of the	: UN 2031 oods : Nitric acid			
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	Class Packaging group Hazard Labels Packing instructic aircraft)	: 8 : II : 8 n (cargo : 855		
IMDG	UN/ID No. Description of the Class Packaging group Hazard Labels EmS Number Marine pollutant IMDG Code segre	: UN 2031 goods : Nitric acid : 8 : II : 8 : F-A, S-B : no gation group 1 – ACIDS,		
CTION 15	. REGULATORY INF	ORMATION		
Inventor	ies			
US. Toxic Substances Control Act		: On TSCA Inventory		
Australia. Industrial Chemical (Notification and Assessment) Act		: On the inventory, or in compliance with the inventory		
Environn Act (CEF	Canadian nental Protection PA). Domestic ces List (DSL)	: All components of this product are on the Canadian DSL		
Japan. K	ashin-Hou Law List	: On the inventory, or in compliance with the inventory		
-	xisting Chemicals	: On the inventory, or in compliance with the inventory: On the inventory, or in compliance with the inventory		
Korea. E Inventory Philippin Substand	xisting Chemicals			
Korea. E Inventory Philippin Substand and Nucl Act China. In	xisting Chemicals / (KECI) es. The Toxic ces and Hazardous	: On the inventory, or in compliance with the inventory		



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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance	e with the inventory	
National regulatory inform	ation		
SARA 302 Components	 The following components are sub established by SARA Title III, Sec Nitric acid 		
SARA 313 Components	 The following components are sub established by SARA Title III, Sec Nitric acid 		
SARA 311/312 Hazards	: Acute Health Hazard		
CERCLA Reportable Quantity	: 3030 lbs		
California Prop. 65	: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		
Massachusetts RTK	: Nitric acid	7697-37-2	
New Jersey RTK	: Nitric acid	7697-37-2	
Pennsylvania RTK	: Nitric acid	7697-37-2	
CTION 16. OTHER INFORM	TION		
Health hazard	HMIS III NFPA : 3 3 : 0 0		
Flammability			



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Physical Hazard Instability	: 1	

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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