

| PRODUCT: | HEXYLENE (| | | | | | Page 1 / 9 | | | |
|---------------|----------------|------------|--------------------------------|---|--|---|--|--|--|--|
| Date: | 11/14/2006 | N° MSDS: | QP0091 E | Version: | 0.3E | Cancels and replaces: | All previous | | | |
| | | | <u> </u> | | | | | | | |
| 1 – Identif | ication of F | Product an | d Company | , | | | | | | |
| Product na | me: | | HEX | YLENE GL | YCOL | | | | | |
| Supplier | | | | | | | | | | |
| Name: | | | Rhod | lia Poliamid | la e Especia | alidades Ltda. | | | | |
| | | | Centr | ro Empresa | rial, Bloco I | B, 1º andar | | | | |
| Address: | | | Aven | ida Maria C | Coelho Agui | ar, 215 | | | | |
| | | | 0580 | 4-902 São | Paulo (SP) | | | | | |
| Phone: | | | + 55 | 11 3741 87 | '96 | | | | | |
| Fax: | | | + 55 | 11 3741 80 | 99 | | | | | |
| E-mail: | | | inforh | nodia@br.rł | nodia.com | | | | | |
| | | | | | | | | | | |
| Manufacture | er: | | Rhod | lia Poliamid | la e Especia | alidades Ltda. | | | | |
| Site: | | | Usina | a Química c | le Paulínia | - UQP | | | | |
| Address: | | | Faze | nda São Fr | ancisco, S/ | Ν | | | | |
| | | | 1314 | 0-000 – Pa | ulínia/SP | | | | | |
| Phone: | | | + 55 | 19 3874 80 | 00 | | | | | |
| E-mail | | | | | | | | | | |
| Emergency | contact: | | Phon | e: + 55 | 19 3874 93 | 333 | | | | |
| 2 – Compo | osition and | Informatio | on on Comp | onents | | | | | | |
| >>> SUBST | ANCE | | | | | | | | | |
| Chemical or | r generic nan | ne: | 2-me | thyl-2,4-pe | ntanodiol. | | | | | |
| Synonyms: | | | HGL, 1,1,3 meth | HGL, diolane, isol, pinakon, diacetone glycol, methylamilenoglycol, 1,1,3-trimethyl-triethylenodiol, 2,4-dihidroxy-2-methyl-pentane, 2-methyl-propane-2-4-diol. | | | | | | |
| CAS registe | er: | | CAS: | 107-41-5 - | - EC classif | ication: Xi; R36/38 | | | | |
| 3 – Hazaro | ls Identifica | ation | | | | | | | | |
| MOST IMPO | ORTANT HA | ZARDS | | | | | | | | |
| Product effe | ects: | | Can Irritat | Can be harmful when swallowed, inhaled or absorbed by skin. | | | | | | |
| Adverse ef | fects to hum | nan health | | <u> </u> | , | ,,.,.,.,.,.,.,.,.,.,.,.,.,.,.,.,.,. | | | | |
| - Acute toxic | city: | | | | | | | | | |
| • Loc | cal effects: | | Harm eyes, | nful when s , mucous a | swallowed, nd superior | inhaled or absorbed by respiratory system. | skin. Irritating to | | | |
| • Ma | in symptoms | : | Degro infect | eases skin tions. | , allowing o | development of dermatitis | s and secondary | | | |
| - Chronic to | xicity: | | | | | | | | | |
| • Chi | ronic effects: | | Can uncol risks expos | cause nsciousnes of severe sure. | depression s when inh effects to h | of central nervous naled in great concentra nealth in case of prolong | system and tions. There are ed and repetitive | | | |



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| • Mai | n symptoms: | | If inh irritat leucc | aled cause ion, loss o cytosis, ed | es sleepine f appetite, ema and g | ess, vertigo, headaches, r , vomit and diarrhea. Car greasy degeneration of visc | noose and throat n cause anemia, cera. | | |
| Physical an | d chemical h | nazards | | | | | | | |
| - Fire and ex | plosion: | | Coml with a | oustible. Va air. The pro | apors can duct burns | n form flammable and ex s when exposed to open fla | plosive mixtures me or spark. | | |
| Specific haza | ards: | | Can vapo | strongly re rs. | act with s | strong oxidizing materials | . Releases toxic | | |
| Chemical pro | oduct classific | cation: | Acco | rding to EC IRRITA | criteria th | is product is classified as: | | | |
| | | | It is c ANT | lassified as [nº 420 – / | a hazardo Agência na | ous product according to F acional de Transportes terr | Resolução criteria estres. Brazil. | | |
| 4 – First Ai | id Measures | S | | | | | | | |
| First aid me | asures | | | | | | | | |
| - Inhalation: | | | Remo provi provi possi | ove victim de artificial de oxygen ble take a l | to a venti breathing from 10 to abel of this | ilated place. If the victim . If the victim is breathing 15 l/min. Seek immediatel s product. | is not breathing but with difficulty y medical care; if | | |
| - Skin contac | ot: | | Remo amou emer a lab | ove all cor int of clear gency show el of this pro | ntaminated water for wer. Seek oduct. | d clothing and shoes. War at least 20 minutes, pre immediately medical care | ash with a great ferably under an ; if possible take | | |
| - Eyes conta | ct: | | Wash keep Seek produ | n with a gr ing eyelids immediate uct. | reat amou separate ely medica | nt of clear water for at le ed. Use preferably an ey al care; if possible take | east 20 minutes, /ewash fountain. a label of this | | |
| - Ingestion: | | | Do n with a possi | Do not induce vomit. If the victim is conscious wash his/her mo with a great amount of clear water. Seek immediately medical care possible take a label of this product. | | | | | |
| - Actions to a | avoid: | | Do n induc | Do not offer anything to drink if the victim is unconscious. D induce vomit and do not let the victim without medical care. | | | | | |
| Note to physician: | | | The o to co treatr | The emergency and post-overexposure treatments must be direct to control complete clinical state of the patient. Symptom- treatment. There are no specific antidotes. | | | | | |
| Brigade prot | ection: | | In res | scue operat | ions use s | self-contained breathing ap | paratus (SCBA). | | |
| 5 – Fire Fig | ghting Meas | sures | | | | | | | |
| Extinguish | media | | | | | | | | |
| - Adequate: | | | Wate (CO ₂ | r spray, po). | olyvalent fo | oam, chemical powder an | d carbon dioxide | | |
| - Non-adequ | ate: | | High- | pressured | water jet. | | | | |
| Specific haza | ards: | | Coml with a great expo | oustible. Va air. Vapor is distances. sed to fire c | apors can s heavier t An interna or heat with | n form flammable and ex than air and can reach igni al pressure buildup can oc h explosion risk. | plosive mixtures tion source even cur in containers | | |



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| Special methods: | | Co | ol with water | spray or kee | ep away all containers ex | posed to heat. | |
| Firemen protection: | | Fu | I protection a | gainst fire a | ind self-contained breathing | ng apparatus. | |
| 6 – Accidental Releas | e Measure | es | | | | | |
| - Personal cares: | | lso em cor vap | late the are ergency resp npetent agen pors. | ea. Keep oonse. Sigr ncies. Avoid | away people without nalize danger to transit d eyes and skin contac | function in the and notify local t. Do not inhale | |
| - Ignition sources remova | al: | Elii em gro pro | minate all fire ergency cont ound all elem oduct under a | e or heat so ainer use of ents in con ir or oxygen | ources. In case of produ nly explosion-proof pump tact with the product. Do pressure. | ct transfer to an s and electrically not transfer the | |
| - Prevention measures: | | Pro gog | otection glov ggles (with ind | es, boots direct ventila | and clothing, and spla ation) to chemical product | ash-proof safety s. | |
| - Emergency measures: | | Dik ind | e spilled pro | duct with ea damaged [| arth, vermiculite or other package up. | inert material. If | |
| Environment cares: | | lf p ski se\ eai | oossible inter n and clothi vers or wate th, sand or si | rupt leakage ng. Preven ercourses. I milar mater | e avoiding the product or t product or response In case of significant sp ial. | ontact with eyes, waters reaching billage dike with | |
| Clean-up methods | | | | | | | |
| - Interdiction: | | Do pro exp | not use wa duct under plosion motor | ater without air or oxyg s in the tran | specific guideline. Do gen pressure. Do not us sfer of the spilled product | not transfer the use common or t. | |
| - Recovery: | | | Recover maximum amount of recoverable product to an emerge container, duly well-closed and labeled, to posterior recovery elimination. Provide adequate grounding of all conductive element | | | | |
| - Neutralization: | | Do ver | not use wa miculite or a | ater. Absort dry absorbe | o non-recoverable liquid ent material. | with dry earth, | |
| - Clean-up/decontaminat | ion: | Re cor | cover the container. Use a | ntaminated anti-spark to | material and soil to anot ols. | ther independent | |
| - Disposal: | | Do ma en apj | not dispose terial should /ironmental proved facility | e as comm be supervis regulations. 7. | non garbage. The final sed by an expert accord . We recommend inc | disposal of this ing to all current ineration in an | |
| 7 – Handling and Sto | rage | | | | | | |
| HANDLING | J | | | | | | |
| Technical measures | | | | | | | |
| - Worker exposure preve | ntion: | PP me | E must be us mbranes and | sed to avoid I respiratory | l product contact with ski tract. | n, eyes, mucous | |
| - Fire and explosion prev | ention: | Ave cor the | oid electric nductive elen product und | sparks, sta nents must er air or oxy | atic electricity, etc. Do be electrically grounded. gen pressure. | not smoke. All Do not transfer | |
| - Safe handling cares: | | Gu ver | arantee good | l local venti e necessary | lation at workplace. Provi /. | ide exhaust local | |



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| - Safe handling guidelines: Handle respecting general rules of Industrial Hygiene and Safety. | | | | | | | | | |
| STORAGE | | | | | | | | | |
| Adequate technical measures: | | | All ele Electr Stanc stand reach syste | All electrical connections must be done according to NEC (National Electrical Code) or IEC (International Electrical Commission) Standards and/or ABNT (Associação Brasileira de Normas Técnicas) standards. Observe all necessary dispositions to prevent product reaches sewers or watercourses in case of container or transfer system collapse. | | | | | |
| Storage cor | nditions | | | | | | | | |
| - Adequate: | | | Store inert heat have conta | Store in a clean and well-ventilated place avoiding heating and under inert nitrogen atmosphere (N_2). Keep away from ignition sources, heat and flames. The soil must be impervious, non-combustible and have a system to flow the product to a contention container. Storage containers must have contention dikes and drainage. | | | | | |
| - To avoid: | | | Keep | Keep away from ignition sources/heat and incompatible materials. | | | | | |
| - Incompatible products and materials: | | | | Strong acids, strong reducer agents, acetic anhydride and acie chlorides. | | | | | |
| Package cor | ndition: | | Keep | Keep the product only in the original package. | | | | | |
| Safe materia | als to packa | ge | | | | | | | |
| - Recommer | nded: | | Ordin | ary steel o | r aluminun | n. | | | |
| - Non-recom | mended: | | Plasti | c materials | 5. | | | | |

8 – Exposure Control and Personal Protection

| Engineering control measures: | Capture the vapors at the emission points. Guarantee good loca ventilation at workplace. | | | | | |
|---|--|--|--|--|--|--|
| Specific control parameters | | | | | | |
| Occupational exposure limits | | | | | | |
| - Threshold limit value (Brazil, Portaria MTb 3214/78, NR 15 – Annex 11): | Not listed. | | | | | |
| - Threshold limit value (USA, ACGIH – 2001): | TLV/CEIL (40 h/week) = 125 mg/m ³ (25 ppm). | | | | | |
| - Threshold limit value (USA, NIOSH): | TLV/CEIL (40 h/week) = 125 mg/m ³ (25 ppm). | | | | | |
| Monitoring recommended procedures: | Environmental and personal monitoring at regular intervals. | | | | | |
| Personal Protective Equipment | | | | | | |
| - Respiratory protection: | Respirator with filter to organic vapors if product concentration is inferior to threshold limit value and if there is no lack of oxygen. Self- contained breathing apparatus if product concentration is superior to threshold limit value and/or there is a lack of oxygen. | | | | | |
| - Hands protection: | Solvent-resistant and impermeable gloves. | | | | | |
| - Eyes protection: | Splash-proof safety goggles to chemical products (with indirect ventilation). | | | | | |
| - Skin and body protection: | Impermeable clothing, gloves and boots. | | | | | |
| Special cares: | Emergency showers and eyewash fountains. | | | | | |



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| Hygiene me | asures: | | Hygie Indus not d | enize clothi strial Hygie rink, eat or | ng and sh ne must n smoke du | oes after using. General n ninimize the exposition to ring handling of chemicals. | methods used in the product. Do |
| 9 – Physic | ochemical | Properties | 6 | | | | |
| Appearance | e | | | | | | |
| - Physical st | ate: | | Liquid | l. | | | |
| - Form: | | | Clear. | | | | |
| Color: | | | Colorl | ess. | | | |
| Odor: | | | Swee | tish. | | | |
| pH: | | | 6.93. | | | | |
| Specific ten | nperatures | | | | | | |
| Crystallizat | tion point: | | - 50.0 | °C. | | | |
| - Boiling poir | nt: | | 197.5 | °C @ 760 r | mmHg (Rh | odia's method). | |
| - Boiling ran | ge: | | 195.5 | - 198.5 @ | 760 mmH | g (Rhodia's method). | |
| Critical temp | erature: | | 348.0 | °C. | | | |
| Flammabilit | ty character | istics | | | | | |
| - Flash point | t: | | 92.85 | °C (closed | cup) – TA | G; 102.0°C (open cup) – T | AG |
| - Self-ignitio | n temperatur | e: | 305.5 | °C. | | | |
| Comburent p | properties: | | Non-c | omburent a | according | to EC criteria. | |
| Explosivity | characteris | tics | | | | | |
| - Lower (LFL | _): | | 1.3% | v/v. | | | |
| - Upper (UFI | L): | | 9.0% | v/v. | | | |
| - Vapor pres | sure: | | 0.005 | kPa @ 20' | °C. | | |
| - Vaporizatio Density | on rate: | | 1.0 (n | -butyl aceta | ate = 100). | | |
| - Vapor dens | sity (air = 1): | | 4.1. | | | | |
| - Liquid dens | sity: | | 0.920 | 1 g/ml @ 2 | 0°C. | | |
| Miscibility | | | | | | | |
| - In water: | | | Produ | ict in water | : complete | | |
| | | | Water | in product | : complete | | |
| - In organic : | solvents: | | It is m | iscible in m | nost organi | ic solvents, greasy acid an | d water. |

10 – Stability and Reactivity

Specific conditions

| - Stability: | Stable at room temperature and under normal conditions of use. |
|------------------------|---|
| - Hazardous reactions: | Reacts strongly with oxidizing agents. |
| To avoid: | Generation and inhalation of vapors, liquid spraying, prolonged or repetitive exposure, skin, eyes and clothing eyes contact, moisture, flames, sparks, static electricity, heat, hot surfaces and other ignition sources. |



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| Incompatible materials or substances: | Strong oxidizing agents, strong reducer agents, strong acids, acetic anhydride and acid chlorides. |
| Hazardous products from decomposition: | By combustion or thermal degradation (pyrolysis) releases carbon dioxide and carbon monoxide. |
| Other data: | Decomposes in contact with strong acids. |
| 11 – Toxicological Information | |
| Acute toxicity | |
| - Inhalation: | Harmful. It is absorbed by aerial via. |
| | LC ₅₀ (rats) = 4,000 ppm (15 min). |
| | LC ₅₀ (mice) = 23,300 mg/kg. |
| - Skin contact: | Not easily absorbed by skin. Irritating to mucous membranes. |
| | LD ₅₀ (rabbits) > 3 g/kg. |
| - Ingestion: | It is absorbed by digestive via. |
| 0 | LD ₅₀ (rats): 2,080 mg/kg. |
| | LD ₅₀ (mice): 2,671 mg/kg. |
| Acute symptoms: | Epigastric pain, damage to liver and kidneys as well as depression of central nervous system. Symptoms include: emotional lability, vertigo, nausea, vomit, absence of motor coordination, double vision, narcosis, unconsciousness, face reddish, accelerated pulse and eventual urinary and fecal incontinence. These symptoms are more frequently observed when product is ingested or inhaled in large quantities. |
| Acute local effects | |
| - Inhalation: | The vapor inhalation can cause irritation of aerial via depending on the exposure time. |
| - Skin contact: | Degreases the skin. |
| - Eyes contact: | Irritating in the liquid and vapor form; can cause severe injuries. |
| - Ingestion: | It is harmful when swallowed. It is absorbed by digestive via. Can cause gastrointestinal problems, vomit and diarrhea. |
| Chronic toxicity | |
| - Inhalation: | Can cause sleepiness, headaches, noose and throat irritation, vertigo, loss of appetite, vomit and diarrhea. |
| - Skin contact: | Degreases the skin and can cause dermatitis and cracks, allowing development of secondary infections. |
| - Ingestion: | Chronic intoxication can cause anemia, leucocytosis, edema and greasy degeneration of viscera. |
| Specific effects | |
| - Carcinogeny: | Product not yet classified by ACGIH (2001), and considered as non- human carcinogenic by OSHA, NTP and IARC. |



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| | | | | | | | | | | |
| 12 – Ecolo | ogical Infori | mation | | | | | | | | |
| Mobility | | | | | | | | | | |
| Volatility: | | | Low. | | | | | | | |
| Absorption/ | desorption: | | High | mobility. Th | ie produ | uct can easily infiltrate on soil | S. | | | |
| Target com | partment: | | Wate | r and air. | | | | | | |
| Persistency | y/Degradabi | lity | | | | | | | | |
| - Hydrolysis | : | | lt is n | ot a signific | ant pro | cess. | | | | |
| Biodegrada | ability | | | | | | | | | |
| - Final aerol | bic biodegrad | lability: | lt is s | It is subject to biodegradation in soil and natural waters. | | | | | | |
| Bioaccumu | lation: | | | | | | | | | |
| Octanol/wat | ter separatior | o coefficient: | lt is n | It is not potentially bioaccumulative. | | | | | | |
| Ecotoxicity | 1 | | | | | | | | | |
| Effects under | er aquatic org | janisms: | LC ₅₀ | LC ₅₀ (<i>Mississipi silverside</i>): 10 g/l (96 h). | | | | | | |
| | | | LC ₅₀ | LC ₅₀ (<i>Goldfish</i>) : > 5 g/l (24 h). | | | | | | |
| | | | EC_{50} | (Photobact | erium p | hosphereum): 3,038 ppm (5 i | nin). | | | |
| Environme | ntal impact | | | | | | | | | |
| - Effects under treatment facilities: | | | COD | $COD = 2.20 \text{ g } O_2/\text{g}.$ | | | | | | |
| | | | BOD | ₅ = 0.02 g C | ₀₂/g. | | | | | |
| Threshold | values | | | | | | | | | |
| Other inform | nation: | | By be biode | eing miscib gradation c | le in wa lecreas | ater it is easily leached, but the state of the second s | he availability in | | | |

13 – Treatment and Disposal Considerations

| Treatment and disposal methods | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|
| Product: | The product treatment and disposal must be technically evaluated in an individual way. Consult Rhodia's technical report. | | | | | | | |
| Product leftovers | | | | | | | | |
| - Interdiction: | Do not discard in sewers or watercourses. | | | | | | | |
| - Destruction/elimination: | Eliminate in an approved facility according to the current environmental regulations. | | | | | | | |
| Used package | | | | | | | | |
| - Interdiction: | Do not reuse package. | | | | | | | |
| - Decontamination/clean-up: | Empty completely the containers. Wash with an adequate solvent. Recover the used solvent and send to incineration in an approved facility. | | | | | | | |
| - Destruction/elimination: | Send used package to incineration in an approved facility according to current environmental regulations. | | | | | | | |
| NOTE: | We remind users that there may exist local relevant regulations relative to elimination practices.] | | | | | | | |
| | | | | | | | | |



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| | |
| 14 – Transport Information | |
| Brazilian regulations | |
| Road transport (ANTT – Resolução 420/2004): | Not regulated ad hazardous product to transport. |
| International regulations | |
| Railroad/road transport (RID/ADR): | Not regulated. |
| Sea/river transport (IMO/IMDG): | Not regulated. |
| Air transport (OACI/IATA-DGR): | Not regulated. |
| NOTE: | The regulatory prescriptions above are effective at the moment of this file update. However, due to frequent alterations of the regulation relative to the transportation of dangerous substances we suggest that users confirm their status with their local commercial agencies. |
| 15 – Regulations | |
| Regulations | |
| Regulation according EC: | Obligatory labeling (self-classification) to hazardous substances: Applicable. |
| Classifications/symbols: | IRRITATING (Xi). |
| Risk phrases: | R36/38 Irritating to skin and eyes. |
| Safety phrases: | S2: Keep away from children. |
| NOTE: | The regulatory information contained in this section refers exclusively to the main prescriptions specifically applicable to the product addressed by the corresponding MSDS. All users should be aware of the possible existence of other dispositions that might complement these prescriptions. We suggest that every applicable national and international disposition be taken into account for this purpose. |
| 16 – Other Information | |
| Types of use | |
| - Recommended: | The product is used in aqueous emulsions (PVA/Acrylic), paints and varnishes, hydraulic fluids, oils and emulsions to textile and leather industry, anti-agglomeration agent in cement industry and silica materials, agricultural defensives and cosmetics and perfumery. To get more information consult current Rhodia's Technical Report. |
| Chemical formula: | C ₆ H ₁₄ O ₂ |
| Molecular mass: | 118.17. |
| Registers: | Listed on TSCA inventory. |
| Update: | See version and date on heading. |
| Bibliographic references: | www.rhodia.rp/info |
| | http//chemfinder.camsoft.com |
| | NTP Chemical Repository |
| | New Jersey Department of Health and Senior Services |
| | Limites de Exposição (TLVs) para Substâncias Químicas e Agentes Físicos & Índices Biológicos de Exposição (BEIs) – ACGIH-2003 |



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| | | | Pocke | et Guide To | o Chemi | cal Hazards – NIOSH-OSHA | - 1997 | | |
| | | | Norm 08/06 Previo INSS) | as Regula /1978 - denciária A). | imentad MT; Po plicada | oras Comentadas – NR-P ortaria 3.067 de 12/04/19 (Decretos, Portarias e Order | ortaria 3214 de 988; Legislação 1s de Serviço do | | |
| | | | Resol Terres | ução nº 4 stres) – 12 | 20/04 - de feve | - ANTT (Agência Nacional reiro de 2004. | de Transportes | | |
| | | | Dang Assoc | Dangerous Goods Regulations – International Air Transpor Association – IATA – 46th edition – 2005. | | | | | |
| | | | Intern Versio | International Maritime Dangerous Goods Code – IMDG/2004 – Version 7.0 | | | | | |
| | | | Fire Protection Guide To Hazardous Materials- national I Protection Association – 12 TH edition – 1997 | | | | | | |
| | | | https:/ | //webinsigh | nt.arielre | search.com/admin/activate.a | spx | | |
| | | | EU. [dange 2004/ | EU. Directive 67/548/EEC – classification packing and labeling of dangerous substance, annex I, as last amended by directive 2004/73/EC (29 ATP). | | | | | |
| DISCLAIME | R: The prese | ent material | safety data | sheet is in | tended | for use in conjunction with i | ts corresponding | | |

product's technical data sheet, which it does not substitute in any aspect. All information published in the technical data sheet is selected in good faith and represents our current and updated knowledge of the product in question. All users should be aware of possible risks involved in using chemical products for purposes other than those for which they are intended. The present MSDS does not exempt users from observing the set of regulatory texts pertinent to their activities. It is also their responsibility to comply with the recommendations regarding the use of each particular product. The regulatory provisions mentioned above aim exclusively at assisting the user in meeting all applicable requirements regarding the use of dangerous products. These procedures should not be regarded as the only recommended ones and therefore do not exempt the user from conforming to legal obligations relative to the storage and usage of dangerous products other than the ones mentioned herein.