



HSE Solutions Pvt.Ltd

NEW FIRST AID TO MANAGE INDUSTRIAL CHEMICAL RISKS

DIPHOTERINE Solution®: STOPPING INCIDENTS FROM TURNING INTO ACCIDENTS

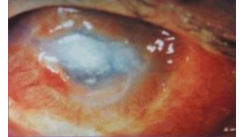


HANDLING Chemicals at workplace can have critical consequences

Chemicals: acids, alkalis, oxidisers, reducers, chelators, solvents



- ACCIDENTS
- HOSPITALISATION
- WORK-LOSS
- REPUTATIONAL RISK



FIRST AID – Water, a limited efficiency on concentrated chemicals



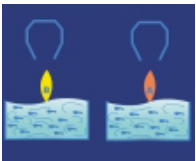
94% H₂SO₄
 First aid water
 Hospitalisation
 6 months work-loss



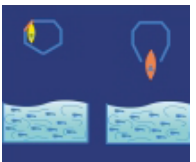
How to keep the eyes open for a proper rinsing when suffering of the chemical burn's pain?

FIRST AID – DIPHOTERINE solution®: ONE POLYVALENT active rinsing solution against ALL CHEMICAL REACTIONS

An amphoteric compound fixing & encapsulating immediately alkalis, acids, oxidisers, reducers, chelating agents & irritants



Base & Acid



India reports: splashes managed with Diphoterine® solution:

- | | |
|--------------------------------------|------------------------------|
| - 98% H ₂ SO ₄ | EYE / SKIN SPLASH |
| - Phenol, | → <u>NO BURN</u> |
| - 50% Caustic, etc. | → <u>NO WORK-LOSS</u> |

For the SKIN



D
A
P

5 l for a whole body wash



M
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200ml for a face



M
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100ml for a hand

For the EYES



L
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500ml for an eye
200ml & spray for a face / limb



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50ml for an eye (within 10 sec)

Diphoterine® solution as to stop Chemical attacks (CSR)



According to plastic surgeons:
 « in many cases, even hours after the chemical exposure and its water washing, the pH of the skin/eye is still corrosive, which makes any graft virtually impossible »

It takes:
 -10 seconds to melt a face,
 -10 years to reconstruct it
 - >10 lakhs for the treatment

Raising awareness on Chemical risk with Indian Chemical Council



Organisation of Seminars on Chemical Burns Management with Indian Chemical Council with presentations on:

- Consequences of chemical burns by Occupational Health Doctors or Plastic surgeons
- Presentation of Diphoterine solution
- Feedback of rinsing with Diphoterine® solution by an EHS professional and interactions/roundtable

Participants' profile: EHS, Production Head & Dr

Plastic Surgeon Dr Umesh Shah (Vadodara) and Occupational Health Dr Amar Rathi (Gujarat Fluorochemicals Halol) showing the use of Diphoterine solution®



Our clients:

Petrochemicals: Reliance, BPCL / **Fertilizers:** Deepak, Chambal, Makteshim / **Aero:** Goodrich
Chemicals: Reliance, DRT Aromatics, L'Oreal, Gharda, SI Group, Excel, USV, India Glycols, Guj Fluorochemicals, SRF, Transpek, Deepak Nitrite, Lonsen Kiri, Sabic, Omnova, Aditya Birla, Vertillus, Huntsman / **Pharma:** Cipla, Sandoz, Jubilant, Teva, Ranbaxy, Piramal, Ipca, Mylan, Dr Reddy's, Abbott, Anthem Bio, Sunpharma, Alembic / **Mining:** Vedanta, Sterlite, Hind Zinc, Tata Steel, Utkal Aluminium / **Nuclear:** Nuclear Fuel Complex / **Food:** ADM agro, Rexam / **Consulting:** Edac, Intertek / **Photovoltaic:** Indosolar, Solar, Moserbaer, Jupiter / **Jewellery:** Renaissance

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