

SAFETY AT THE WORKPLACE: DELIMING/BATING AND PICKLING PHASES OF THE TANNING PROCESS

1- PROCESSES INCLUDING HYDROGEN SULPHIDE (H₂S)



DANGER WARNINGS

H330 FATAL IF INHALED

CAUTION ADVISE

P260 DO NOT INHALE GAS AND VAPOURS

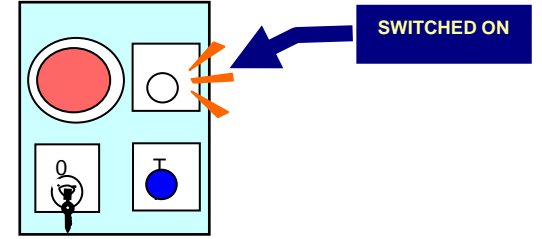
P304+P340+P315: IN CASE OF INHALATION: CARRY THE INJURED PERSON OUTDOOR AND LET HIM REST ASSUMING A EASY-BREATHING POSITION IF CONSCIOUS

CALL IMMEDIATELY FIRST EMERGENCY NUMBER "118"



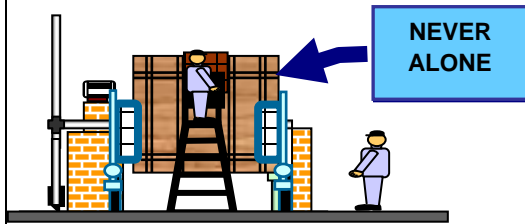
2- VACUUM SYSTEM

From the beginning of **DELIMING** up to the end of **PICKLING** (morning of next day) **DRUMS** have to be **SUFFICIENTLY VENTILATED**. (**WHITE LIGHT** of electrical panel **ON**)



3- PERSONNEL IN CHARGE

WORKERS assigned to **DELIMING/BATING AND PICKLING** Have to be always **AT LEAST IN TWO, WELL INSTRUCTED AND PROPERLY TRAINED**



Personnel have to:

- Respect working procedures
- properly use and well maintain plant and Personal Protective Equipments (PPE), above all:

class III face shield

High capacity absorption filter specific for hydrogen sulphide

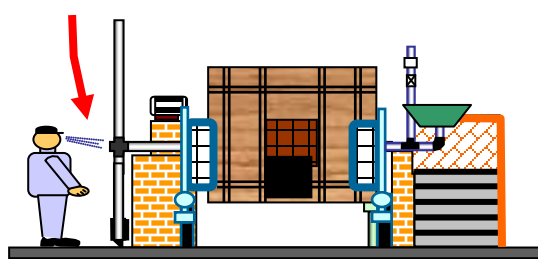
For instance: with **GREY** band marked **TIPO 2B and 3B**



At the end of each cycle personnel have to:

- **verify cleaning of hollow shaft from inspection port**
- **verify/replace the neutralising solution in the abatement tower**
- **keep clean Personal Protective Equipments in hermetically closed packages and store them in closed cabinet**
- **replace filters at regular deadlines following manufacturer's recommendations and company practices**

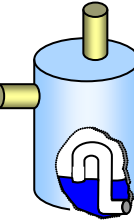
INSPECTION PORT



4- SPECIFIC REQUIREMENTS

VENTILATION:

Verify safety and hold capacity of ventilation system (ventilator and connections)



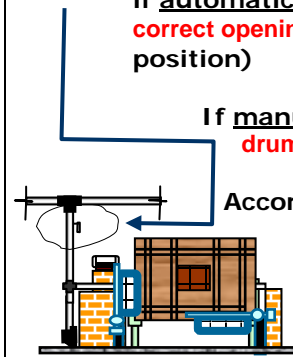
Check the liquid level in drift eliminator to be always over the goose-neck

SHUT-OFF VALVE:

if **automatic** : always verify its correct opening (actuator/lever position)

If **manual**: always exclude drums not involved in the process

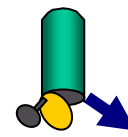
According to procedure



CLAPET VALVE

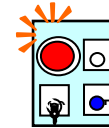
It has to be:

- **hermetically sealed**
- **easily reachable**



FLOW DETECTOR

Verify its correct functioning by pressing test button for at least **30 seconds**. A red light must be activated

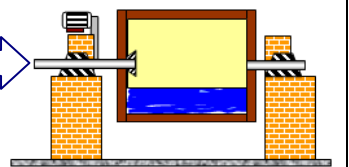


HOLLOW SHAFT

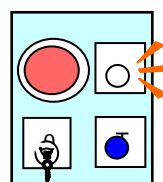
Hollow shaft has to be easily reachable and regularly cleaned (weekly)

HOLLOW SHAFT

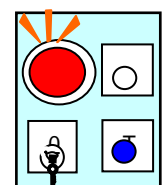
Inspection port



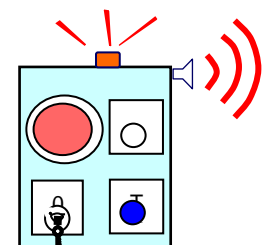
5- COMMAND AND CONTROL PANEL



White light SWITCHED ON: "plant in operation"



Red light SWITCHED ON : WARNING
ACCESS TO DRUMS STRICTLY FORBIDDEN
 (start emergency procedure)
 "insufficient aspiration or non-operating plant", **CAUTION:** the drum has not been properly aired



Sound and/or light alarm activates at any access to drum prior to scheduled time (lifted barrier or photocells intercepted, automatic door opening etc...)